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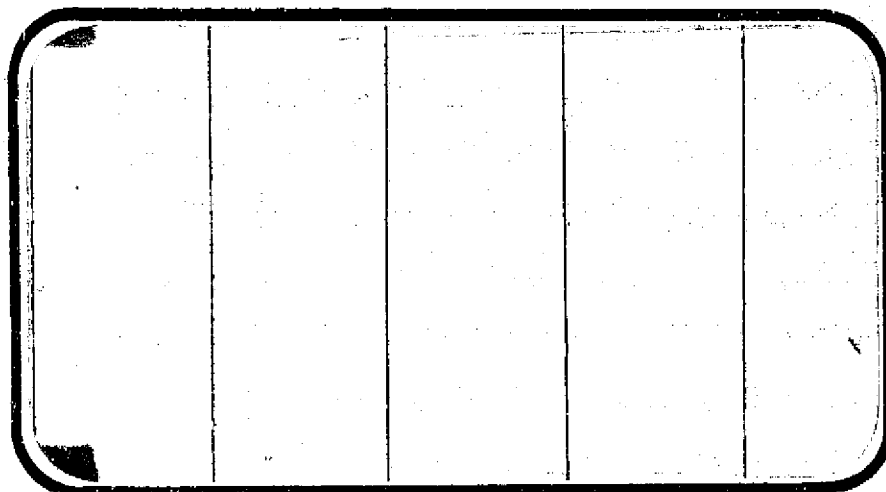
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(NASA-CR-147607) RESULTS OF TEST MA22 IN
THE NASA/LARC 31-INCH CFHT ON AN 0.010-SCALE
MODEL (32-0) OF THE SPACE SHUTTLE
CONFIGURATION 3 TO DETERMINE RCS JET FLOW
FIELD INTERACTION, VOLUME 4 (Chrysler

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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA Management services

SPACE DIVISION



CHRYSLER
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VOLUME 4 OF 4

RESULTS OF TEST MA22 IN THE NASA/LaRC 31-INCH CFHT
ON AN 0.010-SCALE MODEL (32-0) OF THE
SPACE SHUTTLE CONFIGURATION 3 TO DETERMINE
RCS JET FLOW FIELD INTERACTION

by

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by

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Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: LaRC CFHT 118
NASA Series Number: MA22
Model Number: 32-0
Test Dates: May 6, 1975 through June 3, 1975
Occupancy Hours: 168

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RESULTS OF TEST MA22 IN THE NASA/LaRC 31-INCH CFHT
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ABSTRACT

Test MA22 was conducted in the Langley Research Center 31-inch Continuous Flow Hypersonic Wind Tunnel from May 6, 1975 through June 3, 1975. The primary objectives of this test were the following: 1) to study the ability of the wind tunnel to repeat, on a run-to-run basis, data taken for identical configurations to determine if errors in repeatability could have a significant effect on jet interaction data, 2) to determine the effect of model heating on jet interaction, 3) to investigate the effects of elevon and body flap deflections on RCS jet interaction, 4) to determine if the effects from jets fired separately along different axes can be added to equal the effects of the jets fired simultaneously (super position effects), 5) to study multiple jet effects, and 6) to investigate area ratio effects, i.e., the effect on jet interaction measurements of using nozzles with different area ratios in the same location. The model used in the test was a .010-scale model of the Space Shuttle Orbiter Config-

ABSTRACT (Concluded)

ration 3. The test was conducted at Mach 10.3 and a dynamic pressure of 150 psf. RCS chamber pressure was varied to simulate free flight dynamic pressures of 5, 7.5, 10, and 20 psf.

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- (B) CLM, CN versus ALPHA
- (C) CBL, CYN versus BETA
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NOMENCLATURE
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m^2 , psf
q	$Q(NSM)$ $Q(Psf)$	dynamic pressure; $1/2\rho V^2$, N/m^2 , psf
Re/L	Re/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3 , slugs/ft ³
<u>Reference & C.G. Definitions</u>		
A_b		base area; m^2 , ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
\bar{c} l_{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2 , ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CAU	axial-force coefficient; $\frac{\text{axial force}}{qS}$ (uncorrected)
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
A_e		nozzle exit area, in ²
$C_{\ell j}$		RCS jet rolling moment coefficient, $(T_{\ell_\ell})/(qSb)$
$C_{m j}$		RCS jet pitching moment coefficient, $(T_{\ell_m})/(qS\bar{c})$
$C_{n j}$		RCS jet yawing moment coefficient, $(T_{\ell_n})/(qSb)$
$C_{A j}$		RCS jet axial force coefficient, $(T)/(qS)$
$C_{N j}$		RCS jet normal force coefficient, $(T)/(qS)$
$C_{Y j}$		RCS jet side force coefficient, $(T)/(qS)$
e		nozzle expansion ratio
h		altitude, feet
k_i		model nozzle thrust calibration factor, lbs/psia
ℓ_ℓ		RCS nozzle rolling moment arm, in
ℓ_m		RCS nozzle pitching moment arm, in
ℓ_n		RCS nozzle yawing moment arm, in
ℓ_{orb}		Orbiter body length, in
LH		left hand side
\dot{m}_j		RCS jet mass flow rate, lbm/sec
M_j		RCS jet exit Mach number
N_ℓ	N(RM)	RCS roll jet amplification factor, $(\Delta C_\ell)/(C_{\ell j})$

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
N_m	N(PM)	RCS pitch jet amplification factor, $(\Delta C_m)/(C_{mj})$
N_n	N(YM)	RCS yaw jet amplification factor, $(\Delta C_n)/(C_{nj})$
N_A	N(AF)	RCS axial force jet amplification factor, $(\Delta C_{A_u})/(C_{Aj})$
N_N	N(NF)	RCS normal force jet amplification factor, $(\Delta C_N)/(C_{Nj})$
N_y	N(SF)	RCS side force jet amplification factor, $(\Delta C_y)/(C_{yj})$
P_c	PC RCS	model RCS nozzle plenum chamber pressure, psia
P_j		RCS jet exit pressure, psia
RCS		reaction control system
RH		right hand side
RT		product of RCS nozzle gas constant and temperature, (ft-lb)/lb
T		RCS thrust, lbs
T_c	TC RCS	RCS chamber temperature, °R
U		velocity, ft/sec
U_j		RCS jet velocity, ft/sec
x_o		Orbiter longitudinal station, in
y_o		Orbiter lateral station, in
z_o		Orbiter vertical station, in
ΔC_{ℓ}	DLTCBL	incremental rolling moment coefficient due to RCS jet interaction

NOMENCLATURE (Continued)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
ΔC_m	DLTCLM	incremental pitching moment coefficient due to RCS jet interaction
ΔC_n	DLTCYN	incremental yawing moment coefficient due to RCS jet interaction
ΔC_N	DLTCN	incremental normal force coefficient due to RCS jet interaction
ΔC_y	DLTCY	incremental side force coefficient due to RCS jet interaction
ΔC_{A_u}	DLTCAU	incremental axial force coefficient due to RCS jet interaction (uncorrected for base pressure)
γ		jet gas specific heat ratio
Σk_j		sum of model nozzle thrust calibration factors for all nozzles installed on model during a given test run, lbs/psia
θ		RCS nozzle angle, deg.
T/qA	T/QA	RCS thrust divided by freestream dynamic pressure times unit area
	T/QA-1	one jet RCS thrust divided by freestream dynamic pressure times unit area
ΔN_{ℓ}	DN(RM)	incremental RCS jet amplification factor - rolling moment
ΔN_m	DN(PM)	incremental RCS jet amplification factor - pitching moment
ΔN_n	DN(YM)	incremental RCS jet amplification factor - yawing moment
ΔN_N	DN(NF)	incremental RCS jet amplification factor - normal force

NOMENCLATURE (Concluded)

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
ΔN_Y	DN(SF)	incremental RCS jet amplification factor - side force
ΔN_A	DN(AF)	incremental RCS jet amplification factor - axial force
σ		one standard deviation from the mean
\bar{X}		computed mean
δ_{BF}	BDFLAP	Orbiter body flap surface deflection angle, positive deflection trailing edge down, degrees
δ_e	ELEVON	Orbiter elevon surface deflection angle, positive deflection trailing edge down, degrees
	NO. JET	number of RCS jets firing
	TEMP	wing temperature, degrees Fahrenheit

REMARKS

After being subjected to Mach 10 airflow at a dynamic pressure of 150 psf for a period of time, wind tunnel models tend to heat up to temperatures as high as 500°F. Therefore, in an effort to determine whether or not model heating could affect jet interaction measurements, the model was inserted into the tunnel and data was taken as the model heated up. At each data point the temperature of the model wing was recorded by hand. These temperatures can be found in Table VII. Both RCS jets-on and RCS jets-off data were taken as a function of wing temperature. Little effect was observed.

CONFIGURATIONS INVESTIGATED

Three kinds of model changes were required for this test: 1) body flap, 2) elevons, and 3) non-metric RCS nozzle blocks. Twenty two nozzle blocks were used in this test. Nozzles N43, N44, N47, N48, N49, N50, N51, N52, and N61 were used in tests OA85 and OA105. Nozzles N31, N32, N33, N34, N36, and N37 were used in test LA25. Nozzles N78, N79, N81, N82, N83, N84, and N85 were used in test OA82. Nozzle configurations are summarized in Table IV.

Two body flap configurations, in addition to the zero degree setting, were tested. The body flap deflections tested were 13.75° and -14.25° . Similarly, elevon deflections tested were 10° and -30° .

INSTRUMENTATION

The LaRC 0.75-inch six-component 2019A internal balance was used for this test program.

No model base or balance chamber pressures were measured during the test. The RCS supply pressure was set and monitored at the plenum chamber between the left hand and right hand RCS nozzle blocks.

TEST FACILITY DESCRIPTION

The Mach 10 nozzle of the Langley Continuous Flow Hypersonic Tunnel is designed to operate at stagnation pressures of 15 to 150 atmospheres at temperatures up to 1960° R. Air is preheated electrically by passing through a multi-tube heater. The nozzle has a 31-inch square test section which incorporates a moveable second minimum. Continuous operation is achieved by passing the air through a series of compressors. Additional information on this facility is given in NASA TM X-1130 entitled, "Characteristics of Major Active Wind Tunnels at the Langley Research Center", by William T. Schaefer, Jr.

DATA REDUCTION

Aerodynamic forces and moments were reduced to coefficient form using the following reference dimensions:

Reference Area:

$$\begin{aligned} S &= 0.269 \text{ ft}^2 (38.736 \text{ in}^2), \text{ model scale} \\ &= 2690.0 \text{ ft}^2, \text{ full scale} \end{aligned}$$

Reference Lengths:

$$\begin{aligned} \bar{c} &= 4.748 \text{ in. model scale} \\ &= 474.8 \text{ in. full scale} \\ b &= 9.367 \text{ in. model scale} \\ &= 936.7 \text{ in. full scale} \end{aligned}$$

The moments were reduced about a moment reference center located at:

$$\begin{aligned} \text{Orbiter station } 10.767 \text{ at } Y_o = 0.00 \text{ and } Z_o = 3.75 \text{ model scale} \\ X_o = 1076.7, Y_o = 0.0, \text{ and } Z_o = 375.0 \text{ full scale} \end{aligned}$$

Standard LRC data reduction techniques were employed for reducing the data to coefficient form.

Reduced coefficient data were used to determine RCS jet interaction amplification factors. Incremental coefficient data (ΔC_m , ΔC_ℓ , ΔC_n , ΔC_y , and ΔC_{A_U}) were computed to provide effects of RCS jets. Amplification factors were computed for each plane of action:

$$\begin{aligned} N_m &= \frac{\Delta C_m}{C_{m_j}} = \frac{\Delta C_m}{\frac{(T\ell_m)}{qS\bar{c}}} = \frac{qS\bar{c}}{P_{C\ell_m} \Sigma k_j} \Delta C_m \\ N_\ell &= \frac{\Delta C_\ell}{C_{\ell_j}} = \frac{\Delta C_\ell}{\frac{(T\ell_\ell)}{qSb}} = \frac{qSb}{P_{C\ell_\ell} \Sigma k_j} \Delta C_\ell \end{aligned}$$

DATA REDUCTION (Continued)

$$N_n = \frac{\Delta C_n}{C_{nj}} = \frac{\Delta C_n}{\left(\frac{T \ell_n}{qSb}\right)} = \frac{qSb}{P_c \ell_n \Sigma k_i} \Delta C_n$$

$$N_N = \frac{\Delta C_N}{C_{Nj}} = \frac{\Delta C_N}{\left(\frac{T}{qS}\right)} = \frac{qS}{P_c \Sigma k_i} \Delta C_N$$

$$N_Y = \frac{\Delta C_Y}{C_{Yj}} = \frac{\Delta C_Y}{\left(\frac{T}{qS}\right)} = \frac{qS}{P_c \Sigma k_i} \Delta C_Y$$

$$N_A = \frac{\Delta C_{Au}}{C_{Aj}} = \frac{\Delta C_{Au}}{\left(\frac{T}{qS}\right)} = \frac{qS}{P_c \Sigma k_i} \Delta C_{Au}$$

where

ℓ_m = RCS pitch jet moment arm
= 4.523 in model scale

ℓ_R = RCS roll jet moment arm
= 1.110 in model scale

ℓ_n = RCS yaw jet moment arm
= 4.588 in model scale

Σk_i = sum of k_i 's for all nozzles firing in the same thrust plane, k_i given in Table VI

S, \bar{c}, b = as given above

The resulting factors (N 's) represent amplification of Orbiter aerodynamic forces caused by RCS jet interaction with the Orbiter flow field. They are normalized by RCS jet thrusts to allow easy use in control analysis.

The incremental RCS jet amplification factors due to a control surface deflection of amount "a" were computed as follows:

DATA REDUCTION (Concluded)

$$\Delta N_m = N_{m_{\delta=a}} - N_{m_{\delta=0}}$$

$$\Delta N_\ell = N_{\ell_{\delta=a}} - N_{\ell_{\delta=0}}$$

$$\Delta N_n = N_{n_{\delta=a}} - N_{n_{\delta=0}}$$

$$\Delta N_N = N_{N_{\delta=a}} - N_{N_{\delta=0}}$$

$$\Delta N_Y = N_{Y_{\delta=a}} - N_{Y_{\delta=0}}$$

$$\Delta N_A = N_{A_{\delta=a}} - N_{A_{\delta=0}}$$

These factors (ΔN 's) represent the incremental effect of control surface deflections on RCS jet interaction.

The incremental coefficient data do not include thrust forces since the model nozzles were non-metric. Increments and amplification factors were computed for each force and moment plane using data from each nozzle that was tested. This provides both direct (e.g. ΔC_m due to pitch jet) and cross-coupling (e.g. ΔC_m due to yaw jet) effects. Resulting data are presented in the data figures.

REFERENCES

1. DMS-DR-2195 (NASA-CR-134,442) "Results of Test OA82 in the NASA/LRC 31-Inch CFHT on an 0.010-Scale Model (32-0) of the Space Shuttle Configuration 3 to Determine RCS Jet Flow Field Interaction and to Investigate RT Real Gas Effects" by D. E. Thornton, January 1975.

TEST : MA22

DATE : July, 1975

TEST CONDITIONS

[illegible]

BALANCE UTILIZED: LaRC 2019A

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	<u>70 lbs</u>	<u>0.35 lbs</u>	<u> </u>
SF	<u>25 lbs</u>	<u>0.125 lbs</u>	<u> </u>
AF	<u>15 lbs</u>	<u>0.075 lbs</u>	<u> </u>
PM	<u>70 in-lbs</u>	<u>0.35 in-lbs</u>	<u> </u>
RM	<u>15 in-lbs</u>	<u>0.075 in-lbs</u>	<u> </u>
YM	<u>25 in-lbs</u>	<u>0.125 in-lbs</u>	<u> </u>

TEST: CFHT 118 (MA-22)				DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 7/11/75				
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS			
		α	β	Jets	T/RA	Se	SBE											
RJA003	Ø1N49	0	0°	2	95.0	0°	0°								10.3			
RJA403	↓				0.0										3			
RJA005	↓				0.0										403			
RJA006	↓				95.0										5			
RJA011	↓				95.0										6			
RJA411	↓	↓			0.0										11			
RJA012	Ø1N31	A			0.0										411			
13	↓				47.5										12			
14	↓				0.0										13			
15	↓				95.0										14			
16	↓				190.0										15			
17	Ø1N34				47.5										16			
18	↓				95.0										17			
19	↓				127.7										18			
20	Ø1N47				47.5										19			
21	↓				95.0										20			
22	↓				127.7										21			
↓ 23	Ø1N43	↓	↓	↓	47.5	↓	↓								22			
															23			
		7	13	19	25	31	37	43	49	55	61	67	73	79				
BETTA		ICAM	ICN	ICLM	ICBL	ICYN	ICY	ICL	ICD	IT/RA	IMACH	ALPHA						
α OR β		COEFFICIENTS												IOVAR (1) IOVAR (2) NDV				
SCHEDULES		A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$																
		D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .																

* "3" DATASETS CONTAIN QPSF, PCRC3, T/RA, L/D as dependent variables.

Ø1 = B₁₉ C₇ E₂₃ F₅ M₆ R₅ V₇ W₁₀₇

TEST RUN NUMBERS

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHED.		Jets	PARAMETERS/VALUES							NO. OF RUNS	MACH NUMBERS			
		α	β		$T/QA-1$	S_e	S_{BF}						10.3			
RJA024	$\emptyset 1N43$	A	0°	2	0.0	0°	0°						24			
25					0.0								25			
26					95.0								26			
27	↓				127.7								27			
28	$\emptyset 1N79N78$				47.5								28			
29					95.0								29			
30					190.0	↓							30			
31					0.0	-30°							31			
32					47.5								32			
33					95.0								33			
34					190.0	↓							34			
35					0.0	+10°							35			
36					47.5								36			
37					95.0								37			
38	↓			↓	190.0								38			
39	$\emptyset 1N78$			1	190.0								39			
40	$\emptyset 1N85$			2	190.0		↓						40			
↓ 41	↓	↓	↓	↓	0.0	↓	-14.25									
1	7	13	19	25	31	37	43	49	55	61	67	75	76			
<div> <div> <div>α OR β</div> <div>SCHEDULES</div> </div> <div> <div>COEFFICIENTS</div> <div> A, $\alpha = -8^\circ$ to 10°; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35°; $\Delta\alpha = 5^\circ$ D, $\alpha = -10^\circ$, 0, 10°, 20° & 35°. </div> </div> </div>																
													IDVAR (1)	IDVAR (2)	NDV	

TEST RUN NUMBERS

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES								NO. OF RUNS	MACH NUMBERS			
		α	β	Jets	$T/QA-1$	S_e	S_{AF}						10.3			
RJA042	Ø1N85	A	0°	2	190.0	+10°	-14.25						42			
43	Ø1N78			1	↓		↓						43			
44	Ø1N79N78			2	↓		↓						44			
45	↓			T	0.0		+13.75						45			
46	↓			↓	190.0								46			
47	Ø1N78			1	↓								47			
48	Ø1N85			2	0.0								48			
49	↓			T	190.0								49			
50	↓			↓	0.0		-14.25						50			
51	↓			↓	47.5								51			
52	Ø1N78			1	↓								52			
53	Ø1N79N78			2	↓	↓	↓						53			
54	Ø1N78			1	0.0	-30°	0°						54			
55	↓			T	190.0	↓							55			
56	Ø1N85			2	↓	↓							56			
57	Ø1N32			T	0.0	0°							57			
58	↓			↓	47.5								58			
↓ 59	↓	↓	↓	↓	95.0	↓	↓						59			

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

 α OR β
SCHEDULESCOEFFICIENTS
A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR (1) IDVAR (2) NDV

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: //11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS			
		α	β	Jets	$T/QA-1$	Se	S_{AF}								10.3			
RJA060	$\emptyset 1N32$	A	0°	2	190.0	0°	0°								60			
61	$\emptyset 1N36$				47.5										61			
62	↓				95.0										62			
63	↓				127.7										63			
64	$\emptyset 1N48$				47.5										64			
65	↓				95.0										65			
66	↓				127.7										66			
67	$\emptyset 1N44$				47.5										67			
68	↓				95.0										68			
69	↓			↓	127.7										69			
70	$\emptyset 1N78$			1	47.5										70			
71	↓			↓	95.0										71			
72	↓			↓	190.0										72			
73	$\emptyset 1N85$			2	47.5										73			
74	↓			↓	190.0										74			
75	↓				95.0										75			
76	$\emptyset 1N33$				0.0										76			
↓ 77	↓	↓	↓	↓	47.5	↓	↓								77			

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

 α OR β
SCHEDULES

COEFFICIENTS
 A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
 D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR (1) IDVAR (2) NDV

DATE: 7/11/75

TEST RUN NUMBER

COEFFICIENTS

A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR (1)	IDVAR (2)	NOV
1	1	1
1	2	1
1	3	1
1	4	1
1	5	1
1	6	1
1	7	1
1	8	1
1	9	1
1	10	1
1	11	1
1	12	1
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1	130	1
1	131	1
1	132	1
1	133	1
1	134	1
1	135	1
1	136	1
1	137	1
1	138	1
1	139	

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES								NO. OF RUNS	MACH NUMBERS			
		α	β	Jets	$T/RA-1$	S_e	S_{RF}						10.3			
RJA095	$\emptyset 1N84$	D	0°	2	95.0	0°	0°						96			
097			-3°		↓								97			
098			+3°		↓								98			
099			0°		127.7								99			
100			-3°		↓								100			
101	↓		+3°		↓								101			
102	$\emptyset 1N85N50$		0°		0.0								102			
103			-3°		↓								103			
104			+3°		↓								104			
105			0°		47.5								105			
106			-3°		↓								106			
107			+3°		↓								107			
108			0°		95.0								108			
109			-3°		↓								109			
110			+3°		↓								110			
111			0°		127.7								111			
112			-3°		↓								112			
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123			$+3^\circ$											123			
124			0°		190.0									124			
125			-3°											125			
126			$+3^\circ$	\downarrow										126			
127	$\emptyset 1N51$		0°	4	47.5									127			
128			-3°											128			
129			$+3^\circ$											129			
130			0°		95.0									130			
\downarrow 131	\downarrow	\downarrow	-3°	\downarrow		\downarrow	\downarrow	\downarrow						131			

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 79

 α OR β
SCHEDULES

COEFFICIENTS
 A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
 D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR (1) IDVAR (2) NCV

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS				
		α	β	Jets	$T/RA-1$	S_e	S_{RE}								10.3				
RJA132	Ø1N51	D	+3°	4	95.0	0°	0°								132				
133			0°		127.7										133				
134			-3°		↓										134				
135			+3°		↓										135				
136			0°		0.0										136				
137			-3°		↓										137				
138		↓	+3°		↓										138				
139		A	0°		47.5										139				
140					95.0										140				
141					127.7										141				
142	↓	↓		↓	0.0										142				
143	Ø1N78	D	↓	1	↓										143				
144			-3°		↓										144				
145			+3°		↓										145				
146			0°		47.5										146				
147			-3°		↓										147				
148			+3°		↓										148				
↓ 149	↓	↓	0°	↓	95.0	↓	↓								149				
<div> <div>1</div> <div>7</div> <div>13</div> <div>19</div> <div>25</div> <div>31</div> <div>37</div> <div>43</div> <div>49</div> <div>55</div> <div>61</div> <div>67</div> <div>73</div> <div>76</div> </div>																			
<div> <div>α OR β</div> <div>SCHEDULES</div> </div>																			
<div> <div>COEFFICIENTS</div> <div>A, $\alpha = -8^\circ$ to 10°; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35°; $\Delta\alpha = 5^\circ$</div> <div>D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35°.</div> </div>																			
															IDVAR 11 IDVAR 121 NDV				

TEST RUN NUMBERS

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TEST: CFHT 118 (MA-22)			DATA SET/RUN NUMBER COLLATION SUMMARY												DATE: 7/11/75				
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS				
		α	β	Jets	$T/QA-1$	ξ_e	S_{BF}								10.3				
RJA150	Ø1N78	0	-3°	1	95.0	0°	0°									150			
151			+3°		↓											151			
152			0°		190.0											152			
153			-3°		↓											153			
154	↓		+3°	↓	↓											154			
155	Ø1N52		0°	2	47.5											155			
156			-3°		↓											156			
157			+3°		↓											157			
158			0°		95.0											158			
159			-3°		↓											159			
160			+3°		↓											160			
161			0°		190.0											161			
162			-3°		↓											162			
163		↓	+3°		↓											163			
164		A	0°		47.5											164			
165					95.0											165			
166	↓			↓	190.0											166			
✓ 167	Ø1N82	↓	↓	3	47.5	↓	↓									167			

1	7	13	19	25	31	37	43	49	55	61	67	75	76
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α OR β SCHEDULES	COEFFICIENTS										IDVAR (1)	IDVAR (2)	NDV
	$A, \alpha = -8^\circ \text{ to } 10^\circ; \Delta\alpha = 2^\circ \text{ \& } \alpha = 15^\circ \text{ to } 35^\circ; \Delta\alpha = 5^\circ$ $D, \alpha = -10^\circ, 0, 10^\circ, 20^\circ \text{ \& } 35^\circ$												

TEST RUN NUMBERS

TEST: CFHT 118 (NA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS			
		α	β	lets	T/QA-1	Se	SPE								10.3			
RJA168	01N82	A	0°	3	95.0	0°	0°								168			
169					190.0										169			
170		✓			0.0										170			
171		0	✓		190.0										171			
172			-3°		↓										172			
173			+3°		↓										173			
174			0°		0.0										174			
175			-3°		↓										175			
176			+3°		↓										176			
177			0°		↓										177			
178			-3°		↓										178			
179			+3°		↓										179			
180			0°		47.5										180			
181			-3°		↓										181			
182			+3°		↓										182			
183			0°		95.0										183			
184			-3°		↓										184			
✓ 185	↓	↓	+3°	↓	↓	↓	↓								185			

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 79

 α OR β
SCHEDULESCOEFFICIENTS
A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR (1) IDVAR (2) NDV

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES							NO. OF RUNS	MACH NUMBERS			
		α	β	Jets	T/QA-1	δ_e	δ_{BF}					10.3			
RJA186	$\emptyset 1N79$	0	0°	1	47.5	0°	0°					186			
187			-3°		↓							187			
188			+3°		↓							188			
189			0°		95.0							189			
190			-3°		↓							190			
191			+3°		↓							191			
192			0°		190.0							192			
193			-3°		↓							193			
194		↓	+3°		↓							194			
195		A	0°		0.0							195			
196					47.5							196			
197				↓	95.0							197			
198	↓			1	190.0							198			
199	$\emptyset 1N49$			2	47.5							199			
200				↓	95.0							200			
201					190.0							201			
202		↓			0.0							202			
↓ 203	↓	D	↓	↓	47.5	↓	↓					203			

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 75 76

 α OR β
SCHEDULES

COEFFICIENTS
 A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
 D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR (1) IDVAR (2) NDV

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHED.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS			
		α	β	Jets	T/QA-1	Se	SBF								10.3			
RJA204	Ø1N49	0	-3°	2	47.5	0°	0°								204			
205			+3°		↓										205			
206			0°		95.0										206			
207			-3°		↓										207			
208			+3°		↓										208			
209			0°		190.0										209			
210			-3°		↓										210			
211	↓		+3°	↓	↓										211			
212	Ø1N83		0°	3	47.5										212			
213			-3°		↓										213			
214			+3°		↓										214			
215			0°		0.0										215			
216			-3°		↓										216			
217			+3°		↓										217			
218			0°		↓										218			
219			-3°		↓										219			
220			+3°		↓										220			
✓ 221	↓	↓	0°	↓	95.0	↓	↓								221			

TEST RUN NUMBERS

α OR β
SCHEDULES

COEFFICIENTS
A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR (1) IDVAR (2) NO.

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHED.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS				
		α	β	Jets	$T/QA-1$	Se	SBE								10.3				
RJA222	01N83	0	-3°	3	95.0	0°	0°								222				TEST RUN NUMBERS
223			+3°		↓										223				
224			0°		190.0										224				
225			-3°		↓										225				
226		↓	+3°		↓										226				
227		A	0°		0.0										227				
228					190.0										228				
229					95.0										229				
230	↓	↓		↓	47.5										230				
231	01N79N78	D	↓	2	↓										231				
232			-3°		↓										232				
233			+3°		↓										233				
234			0°		95.0										234				
235			-3°		↓										235				
236			+3°		↓										236				
237			0°		190.0										237				
238			-3°		↓										238				
↓ 239	↓	↓	+3°	↓	↓	↓	↓								239				

1 7 13 19 25 31 37 43 49 55 61 67 75 76

α OR β
SCHEDULES

COEFFICIENTS
A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR (1) IDVAR (2) NDV

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES								NO. OF RUNS	BATCH NUMBERS			
		α	β	Jets	$T/QA-1$	S_e	S_{BE}						10			
RJA240	$\emptyset 1N79N78$	A	0°	2	0.0	0°	13.75						240			
241					47.5								241			
242					95.0								242			
243	↓			↓	190.0								243			
244	$\emptyset 1N79$			1	0.0								244			
245				T	47.5								245			
246					95.0								246			
247	↓			↓	190.0								247			
248	$\emptyset 1N85N50$			2	47.5								248			
249				T	95.0								249			
250	↓				127.7								250			
251	$\emptyset 1N49$				47.5								251			
252					95.0								252			
253	↓			↓	190.0								253			
254	$\emptyset 1N83$			3	47.5								254			
255				T	95.0								255			
256					190.0								256			
✓ 257	↓	✓	✓	✓	0.0	✓	-14.25						257			
		7	13	19	25	31	37	43	49	55	61	67	73	79	85	91

TEST RUN NUMBERS

 α OR β
SCHEDULES

COEFFICIENTS
 A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
 D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR (1) IDVAR (2) NCV

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES								NO. OF RUNS	MACH NUMBERS			
		α	β	Jets	$T/QA-1$	Se	SAE						10.3			
RJA258	$\emptyset 1N83$	A	0°	3	47.5	0°	-14.25						258			
259	↓				0.0								259			
260	↓				95.0								260			
261	↓			↓	190.0								261			
262	$\emptyset 1N49$			2	47.5								262			
263	↓			T	95.0								263			
264	↓				190.0								264			
265	$\emptyset 1N85N50$				47.5								265			
266	↓				95.0								266			
267	↓			↓	127.7								267			
268	$\emptyset 1N79$			1	47.5								268			
269	↓			T	95.0								269			
270	↓			↓	190.0								270			
271	$\emptyset 1N79N78$			2	47.5								271			
272	↓			T	95.0								272			
273	↓				190.0								273			
274	↓				0.0	↓							274			
↓ 275	↓	↓	↓	↓	0.0	30°	↓									

TEST RUN NUMBERS

1	7	13	19	25	31	37	43	49	55	61	67	73	76
---	---	----	----	----	----	----	----	----	----	----	----	----	----

α OR β
SCHEDULES

COEFFICIENTS
A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR 1) IDVAR 12) NOV

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES								NO. OF RUNS	MACH NUMBERS			
		α	β	Jets	$T/QA-1$	S_e	S_{RF}						10.3			
RJA276	$\emptyset 1N79N78$	A	0°	2	47.5	-30°	-14.25						276			
277					0.0								277			
278					95.0								278			
279	↓			↓	190.0								279			
280	$\emptyset 1N79$			↓	47.5								280			
281				↓	95.0								281			
282	↓			↓	190.0								282			
283	$\emptyset N85N50$			2	47.5								283			
284				↓	95.0								284			
285	↓			↓	127.7								285			
286	$\emptyset 1N49$			2	47.5								286			
287				↓	95.0								287			
288				↓	190.0								288			
289	↓			↓	0.0								289			
290	$\emptyset 1N83$			3	0.0								290			
291				↓	47.5								291			
292				↓	95.0								292			
↓ 293	↓	↓	↓	↓	190.0	↓	↓						293			
<div> <div>1</div> <div>7</div> <div>13</div> <div>19</div> <div>25</div> <div>31</div> <div>37</div> <div>43</div> <div>49</div> <div>55</div> <div>61</div> <div>67</div> <div>75</div> <div>76</div> </div>																
<div> <div> <div>α OR β</div> <div>SCHEDULES</div> </div> <div> <div>COEFFICIENTS</div> <div> $A, \alpha = -8^\circ$ to 10°; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35°; $\Delta\alpha = 5^\circ$ $D, \alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° </div> </div> <div> <div>IDVAR (1)</div> <div>IDVAR (2)</div> <div>NDV</div> </div> </div>																

TEST RUN NUMBERS

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHED.		JETS	PARAMETERS/VALUES								NO. OF RUNS	MACH NUMBERS			
		α	β		$T/R A-1$	S_e	S_{BF}							10.3			
RJA294	Ø1N83	A	0°	3	0.0	-30°	0°							294			
295	↓			↓	47.5									295			
296	↓			↓	95.0									296			
297	↓			↓	190.0									297			
298	Ø1N49			2	47.5									298			
299	↓			↓	95.0									299			
300	↓			↓	190.0									300			
301	Ø1N79			1	47.5									301			
302	↓			↓	95.0									302			
303	↓			↓	190.0									303			
304	Ø1N84			2	47.5									304			
305	↓			↓	95.0									305			
306	↓			↓	127.7									306			
307	↓			↓	0.0									307			
308	Ø1N85			2	0.0									308			
309	↓			↓	47.5									309			
310	↓			↓	95.0									310			
↓ 311	Ø1N85N50	↓	↓	2	47.5	↓	↓							311			

TEST RUN NUMBERS

1 7 13 19 25 31 37 43 49 55 61 67 73 76

 α OR β
SCHEDULESCOEFFICIENTS
A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR (1) IDVAR (2) NDV

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS				TEST RUN NUMBERS
		α	β	Jets	T/QA	Se	SBE									10.3			
RJA312	$\emptyset 1N85N50$	A	0°	2	95.0	-30°	0°									312			
313	↓			↓	127.7											313			
314	$\emptyset 1N51$			4	47.5											314			
315	↓			↓	95.0											315			
316	↓			↓	127.7											316			
317	↓			↓	0.0	↓										317			
318	↓			↓	0.0	$+10^\circ$										318			
319	↓			↓	47.5											319			
320	↓			↓	95.0											320			
321	↓			↓	127.7											321			
322	$\emptyset 1N85$			2	47.5											322			
323	↓			↓	95.0											323			
324	↓			↓	0.0											324			
325	$\emptyset 1N85N50$			2	0.0											325			
326	↓			↓	47.5											326			
327	↓			↓	95.0											327			
328	↓			↓	127.7											328			
329	$\emptyset 1N84$	↓	↓	↓	47.5	↓	↓									329			
1 7 13 19 25 31 37 43 49 55 61 67 73																			
COEFFICIENTS																			
α OR β		A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$																	
SCHEDULES		D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .																	
		IDVAR (1) IDVAR (2) NDV																	

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHED.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS			
		α	β	Jets	T/R A-1	Se	SRE								10.3			
RJA330	Ø1N84	A	0°	2	95.0	+10°	0°								330			
331	↓			↓	127.7										331			
332	Ø1N79			1	47.5										332			
333	↓			↓	95.0										333			
334	↓			↓	190.0										334			
335	Ø1N49			2	47.5										335			
336	↓			↓	95.0										336			
337	↓			↓	190.0										337			
338	Ø1N83			3	47.5										338			
339	↓			↓	95.0										339			
340					190.0										340			
341					0.0										341			
342					0.0		13.75								342			
343					47.5										343			
344					0.0										344			
345					95.0										345			
346	↓			↓	190.0										346			
347	Ø1N49	↓	↓	2	47.5	↓	↓								347			

17131925313743495561677576

α OR β

SCHEDULES

COEFFICIENTS

A, $\alpha = -8^\circ$ to 10° ; $\Delta\alpha = 2^\circ$ & $\alpha = 15^\circ$ to 35° ; $\Delta\alpha = 5^\circ$
D, $\alpha = -10^\circ, 0, 10^\circ, 20^\circ$ & 35° .

IDVAR (1) IDVAR (2) NDV

TEST RUN NUMBERS

TEST: CFHT 118 (MA-22)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 7/11/75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES							NO. OF RUNS	MACH NUMBERS			
		α	β	Jets	T/QA	Se	SDF					10.3			
RJA348	Ø1N49	A	0°	2	95.0	+10°	13.75					348			
349	↓				190.0							349			
350	Ø1N85N50				47.5							350			
351	↓				95.0							351			
352	↓			✓	127.7							352			
353	Ø1N79			1	47.5							353			
354	↓				95.0							354			
355	↓			✓	190.0							355			
356	Ø1N79N78			2	47.5							356			
✓ 357	↓	✓	✓	2	95.0	✓	✓					357			
* RJA007	Ø1N49 Wing Temp	0°	0°		95.0	0°	0°					7			
407		↓			0.0							407			
008		-10°			95.0							8			
408		↓			0.0							408			
009		20°			95.0							9			
409		↓			0.0							409			
010		35°			95.0							10			
✓ 410	✓	↓	✓	✓	0.0	✓	✓					410			
1	7	13	19	25	31	37	43	49	55	61	67	75	76		
* ALPHA	ICAU	ICN	ICLM	ICBL	ICYN	ICY	ICL	ICD	T/QA	MACH	TEMP				
COEFFICIENTS															
A, α = -8° to 10°; $\Delta\alpha$ = 2° & α = 15° to 35°; $\Delta\alpha$ = 5°															
D, α = -10°, 0, 10°, 20° & 35°															
SCHEDULES															

* "S" DATA SETS CONTAIN BETA, Q(PSF), PCRS, T/QA, L/D AS DEPENDENT VARIABLES.

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B19

GENERAL DESCRIPTION : Fuselage, Configuration 3, per Rockwell

Lines VL70-000139B

NOTE: Identical to B₁₇ except forebody.

MODEL SCALE: 0.010

DRAWING NUMBER : VL70-000139B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length , In.	<u>1290.3</u>	<u>12.903</u>
Max Width, In.	<u>267.6</u>	<u>2.676</u>
Max Depth , In.	<u>244.5</u>	<u>2.445</u>
Fineness Ratio	<u>4.82175</u>	<u>4.82175</u>
Area- Ft ₂	<u></u>	<u></u>
Max. Cross-Sectional	<u>386.67</u>	<u>0.0387</u>
Planform	<u></u>	<u></u>
Wetted	<u></u>	<u></u>
Base	<u></u>	<u></u>

TABLE III (CONT'D)

MODEL COMPONENT : BODY FLAP - F₅GENERAL DESCRIPTION : Configuration 3 per Rockwell Lines VL70-000139.MODEL SCALE: 0.010DRAWING NUMBER: VL70-000139

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length, In.	<u>84.70</u>	<u>0.847</u>
Max Width, In.	<u>267.6</u>	<u>2.676</u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area - Ft ³	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u>142.5</u>	<u>0.0143</u>
Wetted	<u> </u>	<u> </u>
Base	<u>38.0958</u>	<u>0.0038</u>

TABLE III (CONT'D)

MODEL COMPONENT : CANOPY - C₇

GENERAL DESCRIPTION : Configuration 3 per Rockwell Lines VL70-000139

MODEL SCALE: 0.010

DRAWING NUMBER : VL70-000139

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ($X_o=433$ to $X_o=578$), In.	<u>145.0</u>	<u>1.450</u>
Max Width	<u> </u>	<u> </u>
Max Depth	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III (CONT'D)

MODEL COMPONENT: ELEVON - E₂₃GENERAL DESCRIPTION: Configuration 3 per W₁₀₇ Rockwell Lines Drawing
VL70-000139B. Data for (1) of (2) sides.MODEL SCALE: 0.010DRAWING NUMBER: VL70-000139B

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>205.52</u>	<u>0.0206</u>
Span (equivalent), In.	<u>353.34</u>	<u>3.533</u>
Inb'd equivalent chord, In.	<u>114.78</u>	<u>1.148</u>
Outb'd equivalent chord, In.	<u>55.00</u>	<u>0.550</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.208</u>	<u>0.208</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>- 10.24</u>	<u>-10.24</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line) - Ft ³ (Product of Area and c)	<u>1548.07</u>	<u>0.00155</u>

TABLE III (CONT'D)

MODEL COMPONENT: MPS NOZZLES - N₃₉GENERAL DESCRIPTION: Configuration 3A MPS nozzles.MODEL SCALE: 0.010

DRAWING NUMBER: _____

DIMENSIONS:

FULL SCALEMODEL SCALE

MACH NO.

Length - In.

Gimbal Point to Exit Plane

Throat to Exit Plane

Diameter - In.

Exit

Throat

Inlet

Area - ft²

Exit

Throat

Gimbal Point (Station) - In.

Upper Nozzle

X

Y

Z

NOT USED

Lower Nozzles

X

Y

Z

Null Position - Deg.

Upper Nozzle

Pitch

Yaw

NOT USED

Lower Nozzle

Pitch

Yaw

TABLE III. (CONT'D)

MODEL COMPONENT: NOZZLE - N31

GENERAL DESCRIPTION: RCS nozzle providing left-hand pitch-down control.

MODEL SCALE: .010

DRAWING NO.:

DIMENSIONS:

	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	
Cant angle - deg.	
Aft	12
Outboard	20
Diameter - In.	
Exit	.0990
Throat	.0921
Area - In. ²	
Exit	.007698
Throat	.006662
Area ratio	1.15
No. of nozzles	2

TABLE III. (CONT'D)

MODEL COMPONENT: NOZZLE - N32

GENERAL DESCRIPTION: RCS nozzle providing right-hand pitch-up control.

MODEL SCALE: .010

DRAWING NO.:

DIMENSIONS:

	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	.0990
Throat	.0921
Area - In. ²	
Exit	.007698
Throat	.006662
Area ratio	1.15
No. of nozzles	2

TABLE III. (CONT'D)

MODEL COMPONENT: NOZZLE - N33

GENERAL DESCRIPTION: RCS nozzle to provide left-hand yaw control.

MODEL SCALE: .010

DRAWING NO.:

DIMENSIONS:

	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	.0990
Throat	.0921
Area - In. ²	
Exit	.007698
Throat	.006662
Area ratio	1.15
No. of nozzles	2

TABLE III. (CONT'D)

MODEL COMPONENT: NOZZLE - N34

GENERAL DESCRIPTION: RCS nozzle to provide left-hand pitch-down control.

MODEL SCALE: .010

DRAWING NO.:

DIMENSIONS:

	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	
Cant angle - deg.	
Aft	12
Outboard	20
Diameter - In.	
Exit	.0878
Throat	.0520
Area - In. ²	
Exit	.006055
Throat	.002124
Area ratio	2.85
No. of nozzles	2

TABLE III. (CONT'D)

MODEL COMPONENT: NOZZLE - N36

GENERAL DESCRIPTION: RCS nozzle to provide left-hand pitch-up control

MODEL SCALE: .010

DRAWING NO.:

DIMENSION:

	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	.0878
Throat	.0520
Area - In. ²	
Exit	.006055
Throat	.002124
Area ratio	2.85
No. of nozzles	2

TABLE III. (CONT'D)

MODEL COMPONENT: NOZZLE - N37

GENERAL DESCRIPTION: RCS nozzle to provide left-hand yaw control.

MODEL SCALE: .010

DRAWING NO.:

DIMENSIONS:

	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	.0878
Throat	.0520
Area - In. ²	
Exit	.006055
Throat	.002124
Area ratio	2.85
No. of nozzles	2

TABLE III. (CONT'D)

MODEL COMPONENT: NOZZLE - N43

GENERAL DESCRIPTION: RCS nozzle to provide left-hand pitch-down control to simulate entry.

MODEL SCALE: .010

DRAWING NO.:

DIMENSIONS:

	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	5
Cant angle - deg.	
Aft	12
Outboard	20
Diameter - In.	
Exit	.129
Throat	.0465
Area - In. ²	
Exit	.013070
Throat	.001698
Area ratio	7.70
No. of nozzles	2

TABLE III. (CONT'D)

MODEL COMPONENT: NOZZLE - N44

GENERAL DESCRIPTION: RCS nozzle to provide right-hand pitch-up control to simulate entry.

MODEL SCALE: .010

DRAWING NO.:

DIMENSIONS:

	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	5
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	.129
Throat	.0465
Area - In. ²	
Exit	.013070
Throat	.001698
Area ratio	7.7
No. of nozzles	2

TABLE III. (CONT'D)

MODEL COMPONENT: NOZZLE - N47

GENERAL DESCRIPTION: RCS nozzle to provide left-hand pitch-down control to simulate entry.

MODEL SCALE: .010

DRAWING NO.:

DIMENSIONS:

	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	20
Cant angle - deg.	
Aft	12
Outboard	20
Diameter - In.	
Exit	.117
Throat	.0465
Area - In. ²	
Exit	.010751
Throat	.001698
Area ratio	6.33
No. of nozzles	2

TABLE III. (CONT'D)

MODEL COMPONENT: NOZZLE - N48

GENERAL DESCRIPTION: RCS nozzle to provide right-hand pitch-up control to simulate entry.

MODEL SCALE: .010

DRAWING NO.:

DIMENSIONS:

	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	20
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	.117
Throat	.0465
Area - In. ²	
Exit	.010751
Throat	.001698
Area ratio	6.33
No. of nozzles	2

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLE - N₄₉

GENERAL DESCRIPTION: RCS Nozzle providing left-hand pitch-down control
to simulate return to launch site (RTLS)

MODEL SCALE: 0.010

DRAWING NO.: SS-A01160-19

DIMENSIONS:	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	20
Cant Angle - deg.	
Aft	12
Outboard	20
Diameter - In.	
Exit	0.141
Throat	0.0670
Area - In. ²	
Exit	0.015614
Throat	0.003525
Area Ratio	4.430
No. of nozzles	2

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLE - N₅₀

GENERAL DESCRIPTION: RCS nozzle providing righthand pitch-down control to simulate return to launch site (RTLS).

MODEL SCALE: 0.010

DRAWING NO.: SS-A01160-20

DIMENSIONS:	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	20
Cant angle - deg.	
Aft	12
Outboard	20
Diameter - In.	0.141
Exit	0.151
Throat	0.0670
Area - In. ²	
Exit	0.015614
Throat	0.003525
Area ratio	4.430
No. of nozzles	2

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLE - N₅₁

GENERAL DESCRIPTION: RCS nozzle providing left-hand yaw control to simulate return to launch site (RTLIS).

MODEL SCALE: 0.010

DRAWING NO.: SS-A01160-11

DIMENSIONS:	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	20
Cant angle - Deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	0.141
Throat	0.0670
Area - In. ²	
Exit	0.015614
Throat	0.003525
Area ratio	4.430
No. of nozzles	4

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLE - N₅₂

GENERAL DESCRIPTION: RCS nozzle providing right-hand pitch-up control to simulate return to launch site (RTLS).

MODEL SCALE: 0.010

DRAWING NO.: SS-A01160-12

DIMENSIONS:

MODEL SCALE

Flight dynamic pressure simulation - PSF	20
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	0.141
Throat	0.0670
Area - In. ²	
Exit	0.015614
Throat	0.003525
Area ratio	4.430
No. of nozzles	2

TABLE III. (CONT'D)

MODEL COMPONENT: NOZZLE - N61

GENERAL DESCRIPTION: RCS nozzle to provide left-hand yaw control to simulate entry.

MODEL SCALE: .010

DRAWING NO.:

DIMENSIONS:

	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	5
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	.129
Throat	.0465
Area - In. ²	
Exit	.013070
Throat	.001698
Area ratio	7.70
No. of nozzles	2

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLE - N₇₈

GENERAL DESCRIPTION: RCS nozzle providing right-hand up-firing control to simulate return to launch site (RTLS).

MODEL SCALE: 0.010

DRAWING NO.: SS-A01160

DIMENSIONS:	MODEL SCALE:
Flight dynamic pressure simulation - PSF	20
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	0.141
Throat	0.0670
Area - In. ²	
Exit	0.015614
Throat	0.003525
Area ratio	4.430
No. of nozzles	1

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLE - N79

GENERAL DESCRIPTION: RCS nozzle providing left-hand pitch-down control to simulate return to launch site (RTLS).

MODEL SCALE: 0.010

DRAWING NO.:

DIMENSIONS:

MODEL SCALE

Flight dynamic pressure simulation - PSF	20
Cant angle - deg.	
Aft	12
Outboard	20
Diameter - In.	
Exit	0.141
Throat	0.0670
Area - In. ²	
Exit	0.015615
Throat	0.003525
Area ratio	4.430
No. of nozzles	1

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLE - N₈₁

GENERAL DESCRIPTION: RCS nozzle providing left-hand pitch-up control to simulate return to launch site (RTLS).

MODEL SCALE: 0.010

DRAWING NO.:

DIMENSIONS:

MODEL SCALE

Flight dynamic pressure simulation - PSF	20
Cant angle - Deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	0.141
Throat	0.0670
Area - In. ²	
Exit	0.015614
Throat	0.003525
Area ratio	4.430
No. of nozzles	2

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLE - N82

MODEL DESCRIPTION: RCS nozzle providing right-hand pitch-up control to simulate return to launch site (RTLS).

MODEL SCALE: 0.010

DIMENSIONS:	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	20
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	0.141
Throat	0.0670
Area - In. ²	
Exit	0.015614
Throat	0.003525
Area ratio	4.430
No. of nozzles	3

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLE - N₈₃

GENERAL DESCRIPTION: RCS nozzle providing left-hand pitch-down control to simulate return to launch site (RTLIS).

MODEL SCALE: 0.010

DRAWING NO.:

DIMENSIONS:	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	20
Cant angle - deg.	
Aft	12
Outboard	20
Diameter - In.	
Exit	0.141
Throat	0.0670
Area - In. ²	
Exit	0.015614
Throat	0.003525
Area ratio	4.430
No. of nozzles	3

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLE - N84

GENERAL DESCRIPTION: RCS nozzle providing right-hand pitch-up control to simulate return to launch site (RTLS).

MODEL SCALE: 0.010

DRAWING NO.:

DIMENSIONS:	<u>MODEL SCALE.</u>
Flight dynamic pressure simulation - PSF	20
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	0.141
Throat	0.0670
Area - In. ²	
Exit	0.015614
Throat	0.003525
Area ratio	4.430
No. of nozzles	2

TABLE III (CONT'D)

MODEL COMPONENT: NOZZLE - N85

GENERAL DESCRIPTION: RCS nozzle providing left-hand side-firing
to simulate return to launch site (RTLS).

MODEL SCALE: 0.010

DIMENSIONS:	<u>MODEL SCALE</u>
Flight dynamic pressure simulation - PSF	20
Cant angle - deg.	
Aft	0
Outboard	0
Diameter - In.	
Exit	0.141
Throat	0.0670
Area - In. ²	
Exit	0.015614
Throat	0.003525
Area ratio	4.430
No. of nozzles	2

TABLE III (CONT'D)

MODEL COMPONENT : OMS POD - M₆GENERAL DESCRIPTION : Basic configuration 3A OMS pods with non-
metric RCS engine housing and nozzles. Same geometry as M₄.MODEL SCALE: 0.010DRAWING NUMBER : VL70-000139B

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length	<u>346.0</u>	<u>3.460</u>
Max Width	<u>108.0</u>	<u>1.080</u>
Max Depth	<u>113.0</u>	<u>1.130</u>
Fineness Ratio	<u> </u>	<u> </u>
Area	<u> </u>	<u> </u>
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>
Station of aft end of RCS nozzle block	1560	15.60

TABLE III (CONT'D)

MODEL COMPONENT: RUDDER - R₅GENERAL DESCRIPTION: Configuration 140C orbiter rudder (identical to configuration 140A/B rudder)MODEL SCALE: 0.010DRAWING NUMBER: VL70-000146B, -000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft ²	<u>100.15</u>	<u>0.0100</u>
Span (equivalent), In.	<u>201.00</u>	<u>2.010</u>
Inb'd equivalent chord, In.	<u>91.585</u>	<u>0.916</u>
Outb'd equivalent chord, In.	<u>50.833</u>	<u>0.508</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u> </u>	<u> </u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
(Product of Area & \bar{c})		
Area Moment (Normal to hinge line) Ft ³	<u>610.92</u>	<u>0.000610</u>
Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>0.732</u>

TABLE III (CONT'D)

MODEL COMPONENT: VERTICAL - V₇GENERAL DESCRIPTION: Centerline vertical tail, doublewedge airfoil
with rounded leading edge.NOTE: Same as V₅, but with manipulator housing removed.MODEL SCALE: 0.010DRAWING NUMBER: VL70-000139DIMENSIONS: FULL SCALE MODEL SCALE

TOTAL DATA

Area (Theo) - Ft ²		
Planform	<u>425.92</u>	<u>0.0426</u>
Span (Theo) - In.	<u>315.72</u>	<u>3.157</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.00</u>	<u>45.000</u>
Trailing Edge	<u>26.249</u>	<u>26.249</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>2.685</u>
Tip (Theo) WP	<u>108.47</u>	<u>1.085</u>
MAC	<u>199.81</u>	<u>1.998</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>14.635</u>
W.P. of .25 MAC	<u>635.522</u>	<u>6.355</u>
B.L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius	<u>2.0</u>	<u>0.020</u>
Void Area	<u>13.17</u>	<u>0.0013</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>

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*REV. 11/9/74

TABLE III. - MODEL DIMENSIONAL DATA - Concluded.

MODEL COMPONENT: WING-W₁₀₇GENERAL DESCRIPTION: Configuration 3 per Rockwell Lines VL70-000139BNOTE: Same as W₁₀₇, except cuff, airfoil and incidence angle.

TEST NO.

DWG. NO. VL70-000139B

DIMENSIONS:

TOTAL DATA

Area (Theo.) Ft²

Planform

Span (Theo) In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Theo) B.P.O.O.

Tip, (Theo) B.P.

MAC

Fus. Sta. of .25 MAC

(Z₀)* W.P. of .25 MAC

(Y₀)* B.L. of .25 MAC

EXPOSED DATA

Area (Theo) Ft²

Span, (Theo) In. BP108

Aspect Ratio

Taper Ratio

Chords

Root BP108

Tip 1.00 $\frac{b}{2}$

MAC

Fus. Sta. of .25 MAC

*W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root $\frac{b}{2}$

Tip $\frac{b}{2}$

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft²

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

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FULL-SCALE

MODEL SCALE

2690.00	26.900
935.68	9.367
2.265	2.265
1.177	1.177
0.200	0.200
3.500	3.500
0.500	0.500
+3.000	+ 3.000
45.000	45.000
- 10.24	-10.24
35.209	35.209
689.24	6.892
137.85	1.379
474.81	4.748
1136.89	11.369
290.857	2.909
182.13	1.821
1752.29	17.523
720.68	7.207
2.058	2.058
0.245	0.245
562.40	5.624
137.85	1.379
393.03	3.930
1185.31	11.853
293.653	2.937
251.76	2.518
0.100	0.100
0.120	0.120
118.333	1.183
500.00	5.000
1083.4	10.834

TABLE IV. - SUMMARY OF NOZZLE NOMENCLATURE

Nozzle	Throat Dia.	Exit Dia.	Lip Angle	Type	No. of Jets	Cant
N31	0.0921	0.0990	5°	LH down firing	2	20°OUTBD,12°AFT
N32	0.0921	0.0990	5°	RH up firing	2	None
N33	0.0921	0.0990	5°	LH side firing	2	None
N34	0.0520	0.0878	9°	LH down firing	2	20°OUTBD,12°AFT
N36	0.0520	0.0878	9°	RH up firing	2	None
N37	0.0520	0.0878	9°	LH side firing	2	None
N43	0.0465	0.129	31°45'	LH down firing	2	20°OUTBD,12°AFT
N44	0.0465	0.129	31°45'	RH up firing	2	None
N47	0.0465	0.117	34°30'	LH down firing	2	20°OUTBD,12°AFT
N48	0.0465	0.117	34°30'	RH up firing	2	None
N49	0.0670	0.1413	34°15'	LH down firing	2	20°OUTBD,12°AFT
N50	0.0670	0.1413	34°15'	RH down firing	2	20°OUTBD,12°AFT
N51	0.0670	0.1413	34°15'	LH side firing	4	None
N52	0.0670	0.1413	34°15'	RH up firing	2	None
N61	0.0465	0.129	31°45'	LH side firing	2	None
N78	0.0670	0.1413	34°15'	RH up firing	1	None

TABLE IV. - Concluded

Nozzle	Throat Dia.	Exit Dia.	Lip Angle	Type	No. of Jets	Cant
N79	0.0670	0.1413	34°15'	LH down firing	1	20°OUTBD,12°AFT
N81	0.0670	0.1413	34°15'	LH up firing	2	None
N82	0.0670	0.1413	34°15'	RH up firing	3	None
N83	0.0670	0.1413	34°15'	LH down firing	3	20°OUTBD,12°AFT
N84	0.0670	0.1413	34°15'	Combination-RH up firing & side firing	2 up 2 side	None
N85	0.0670	0.1413	34°15'	LH side firing	2	None

TABLE V. - SIMULATION PARAMETERS

$q_{\infty} = 20$ PSF RTLS abort separation simulation

A.	<u>Free Stream Conditions</u>	<u>Free Flight</u>	<u>Wind Tunnel</u>
	Dynamic Pressure q	20 psf	150 psf
	Mach number M	7	10.3
	*Reynolds No. RN/L	1.23×10^6	1×10^6
	Altitude h	200,000ft	--
B.	<u>RCS Jet Characteristics</u>	<u>Prototype</u>	<u>Model</u>
	Chamber Pressure P_c	150 psia	140 psi
	Chamber Temp. T_c	5450 °R	520 °R
	Specific Heat Ratio γ	1.232	1.4
	Expansion Ratio e	20	4.792
	Nozzle Angle θ	9°	34°15'
	Exit Area A_e	72.382 in ²	0.01567 in ²
	Exit Mach No. M_j	3.93	3.13
	Exit Pressure P_j	0.643 psi	3.136 psi
	Mass Flow Rate \dot{m}_j	3.287 lbm/sec	0.01067 lbm/sec
	Momentum $\dot{M}_j U_j$	903.46 lbF	0.675 lbs.
	Thrust T_j	950 lbF	.712 lbs.
C.	<u>Jet to Free Stream Parameters ($S_{ref} = 1 \text{ ft}^2$)</u>	<u>Full Scale Free Flight</u>	<u>Simulation</u>
	Thrust Ratio $\frac{T}{q S_{ref}}$	47.5	47.5 (Matched)
	Mass Flow Ratio $\frac{\dot{m}_j}{\rho U S_{ref}}$	26.4	50.6
	Momentum Ratio $\frac{\dot{M}_j U_j}{q S_{ref}}$	45.17	45 (Matched)
	Pressure Ratio $\frac{P_j}{P}$	224	224 (Matched)
	Plume Shape	Boundary up to Impact station	(Roughly Matched)

* Reynolds Number based on Orbiter length $\lambda_{orb} = 107.5$ ft.

TABLE VI. - THRUST COEFFICIENT FACTORS

<u>Jet</u>	<u>Gas</u>	<u>$k_j = T/P_c$ lbs/psia</u>
N31	Air	0.00692
N32	Air	0.00738
N33	Air	0.00792
N34	Air	0.00266
N36	Air	0.00261
N37	Air	0.00300
N43	Air	0.00250
N44	Air	0.00245
N47	Air	0.00237
N48	Air	0.00237
N49	Air	0.00920
N50	Air	0.00824
N51	Air	0.01620
N52	Air	0.00920
N61	Air	0.00221
N78	Air	0.00450
N79	Air	0.00460
N81	Air	0.00900
N82	Air	0.01356
N83	Air	0.01356
N84	Air	0.00886
N85	Air	0.00904

TABLE VII. - WING TEMPERATURES *

<u>Data Point</u>	<u>$\alpha = 0$</u>	<u>$\alpha = -10$</u>	<u>$\alpha = 20$</u>	<u>$\alpha = 35$</u>	<u>Jet</u>
1	221	295	181	189	ON
2	290	326	208	219	OFF
3	308	344	235	246	ON
4	327	362	264	273	OFF
5	342	375	289	291	ON
6	356	388	313	314	OFF
7	368	398	329	333	ON
8	378	408	343	353	OFF
9	386	417	359	369	ON
10	396	425	374	386	OFF
11	404	434	387	406	ON
12	412	443	397	417	OFF
13	418	450	405	429	ON
14	425	459	414	442	OFF
15	432	465	423	451	ON
16	438	472	431	463	OFF

TABLE VII. - Concluded.

<u>Data Point</u>	<u>$\alpha = 0$</u>	<u>$\alpha = -10$</u>	<u>$\alpha = 20$</u>	<u>$\alpha = 35$</u>	<u>Jet</u>
17	444	480	439	471	ON
18	450	488	446	479	OFF
19	454	495	451	489	ON
20	460	501	457	497	OFF
21	464		462	504	ON
22	469		467		OFF
23	473				ON
24	478				OFF

* degrees Fahrenheit

Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

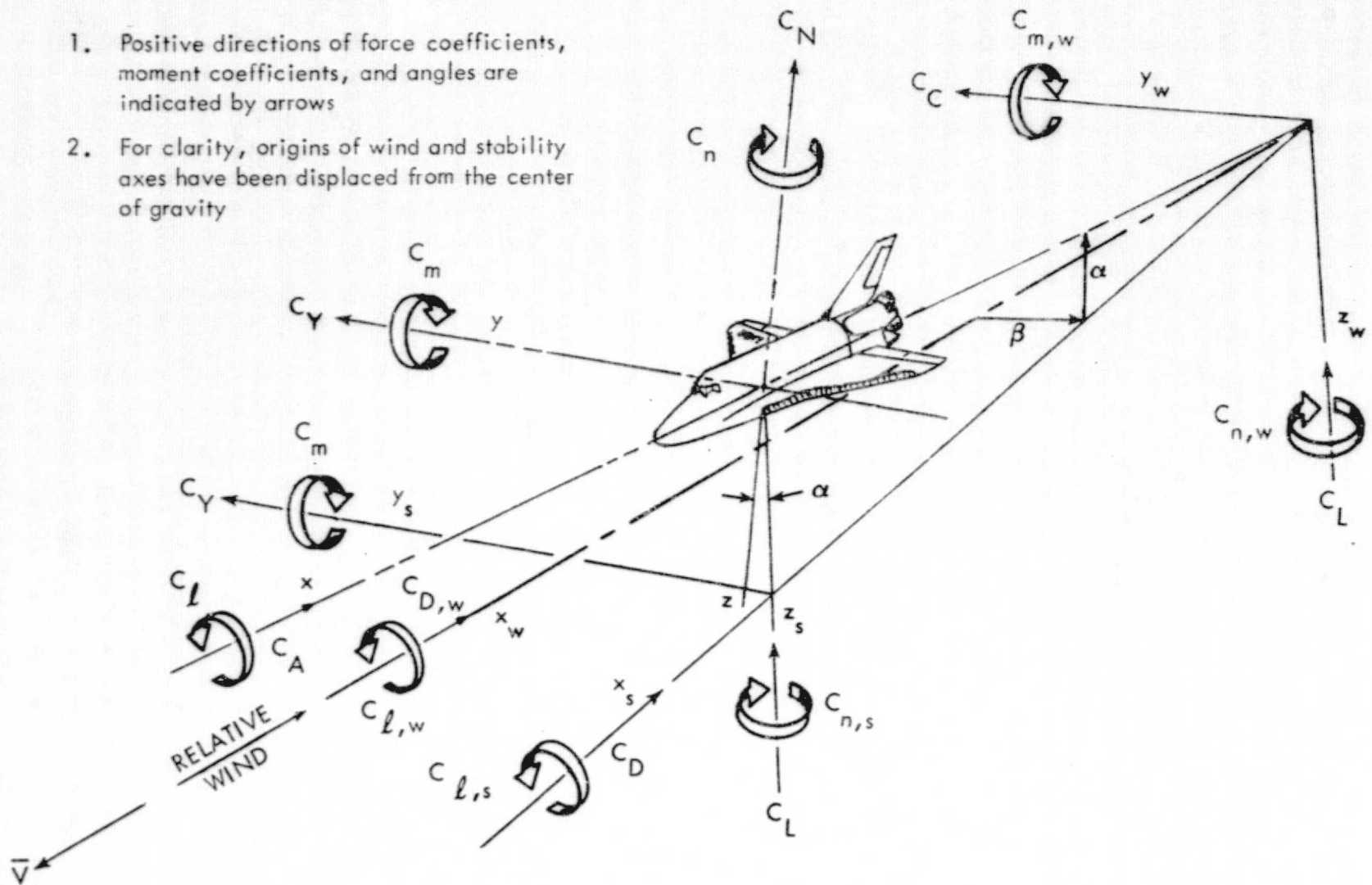
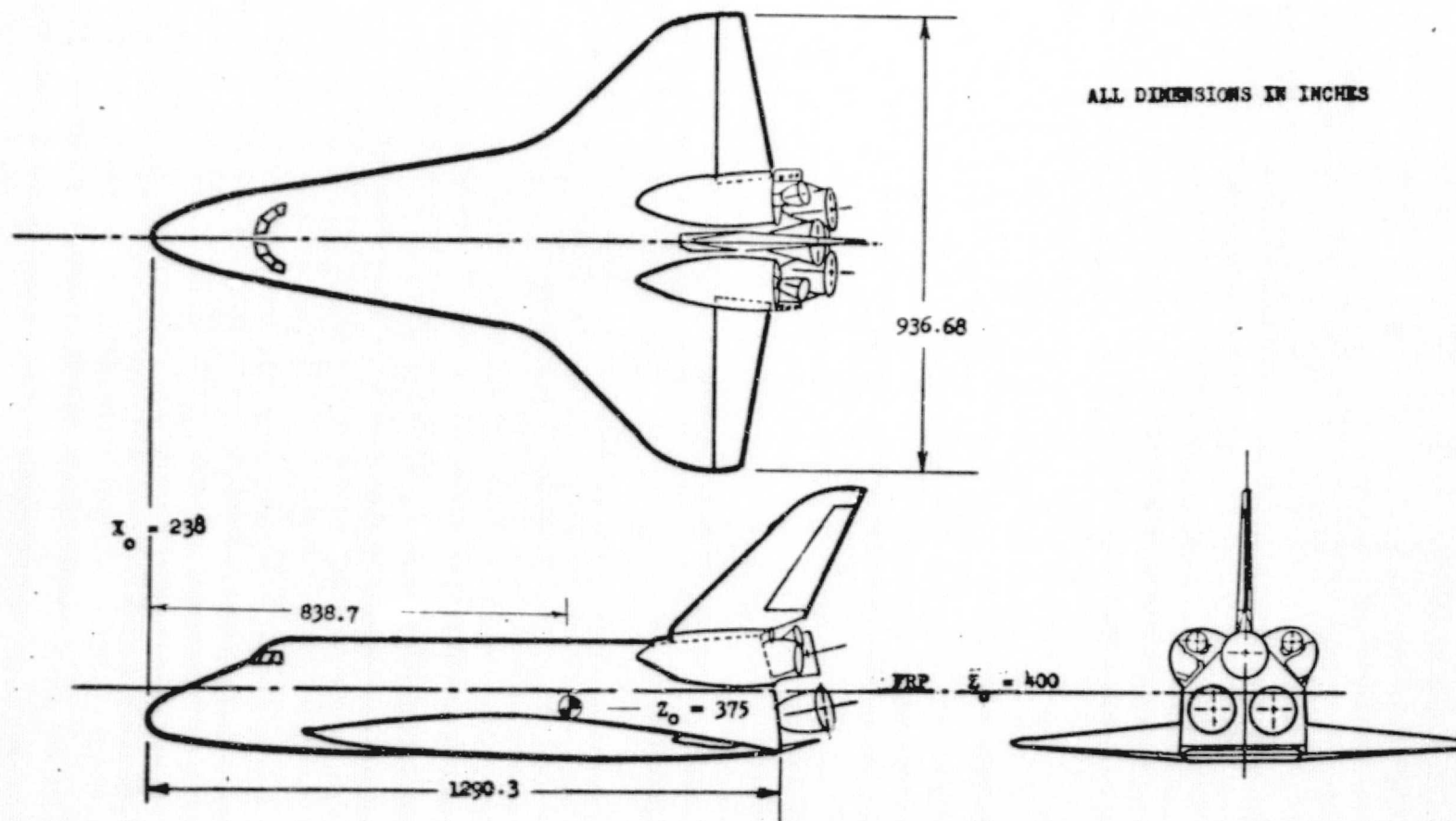
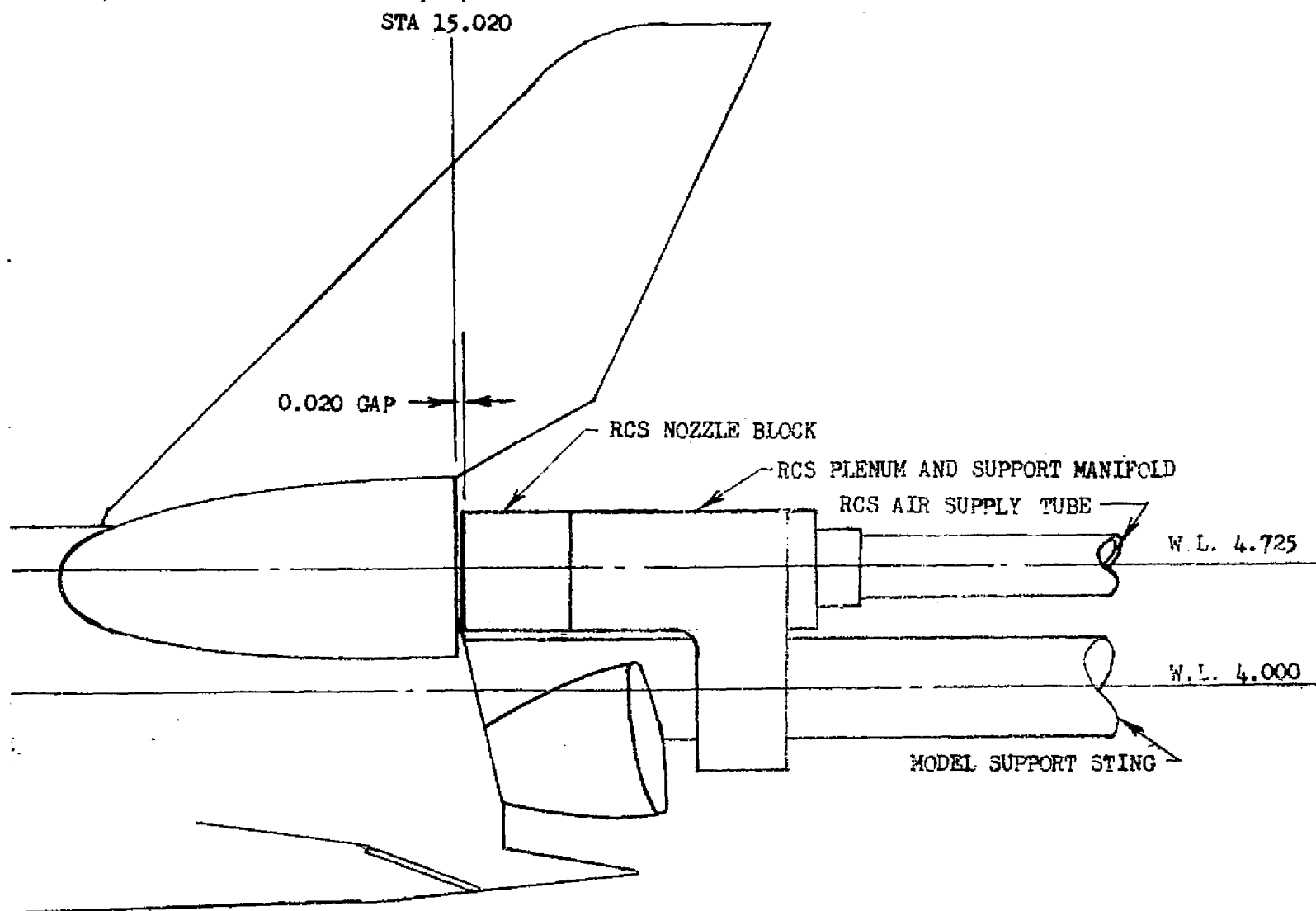


Figure 1. - Axis systems.



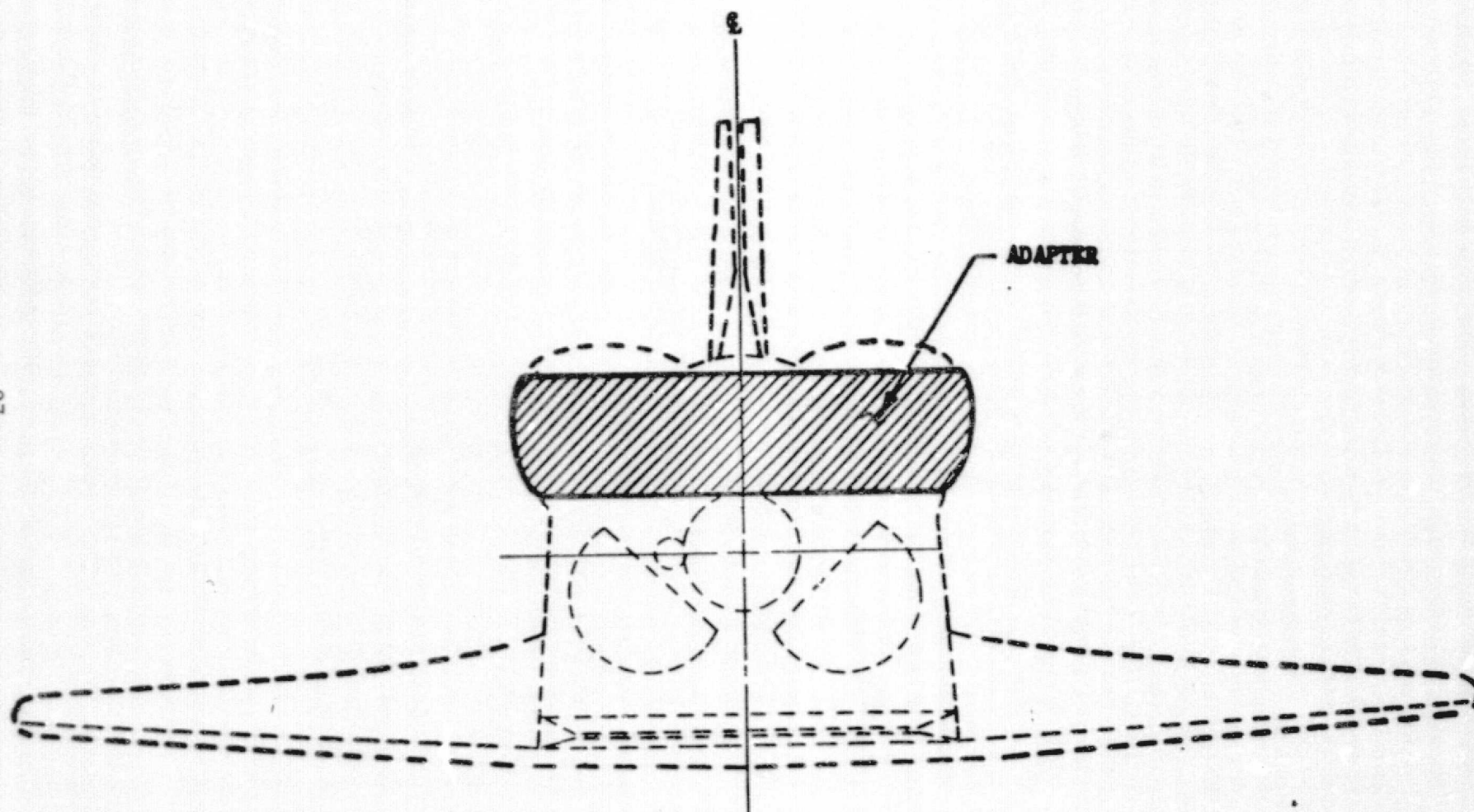
a. Orbiter Configuration

Figure 2. - Model sketches.



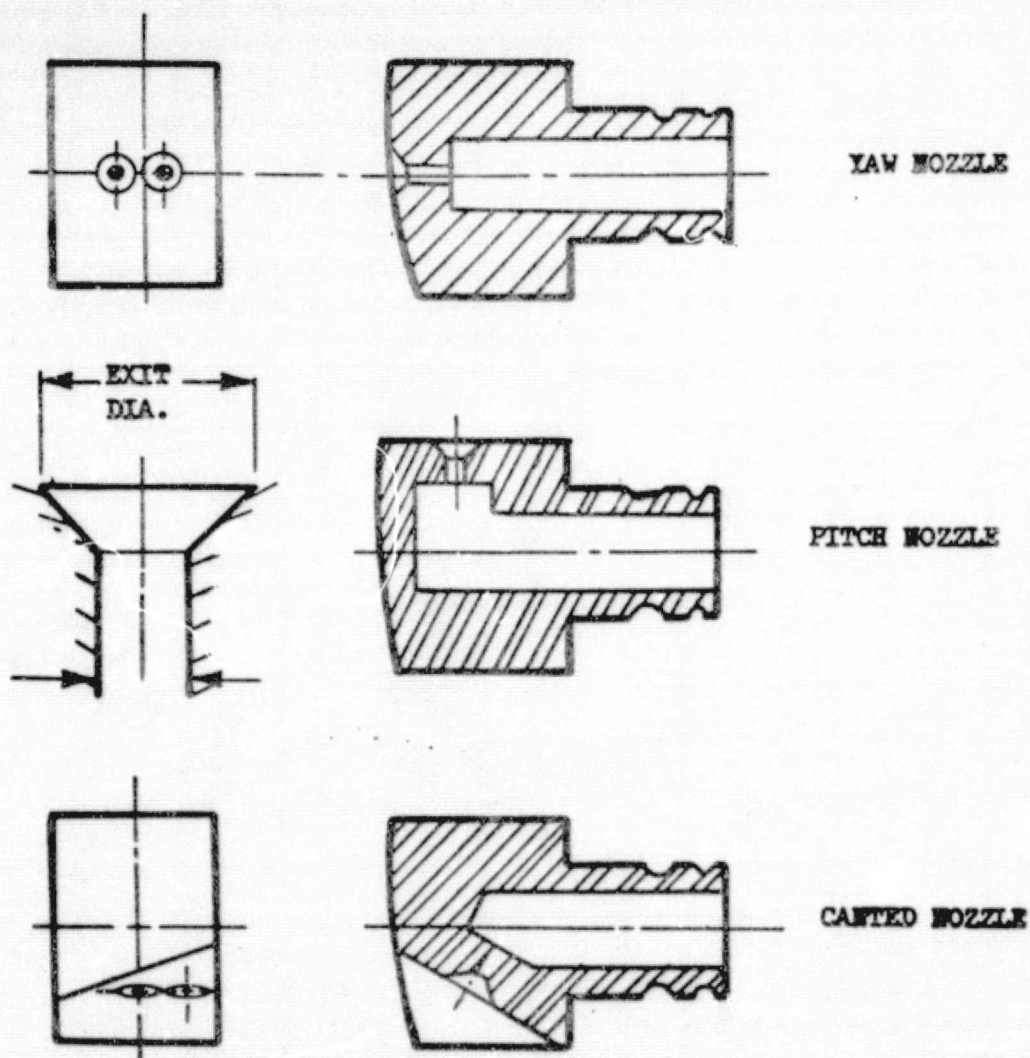
b. RCS Plenum Nozzle Block Installation

Figure 2. - Continued.



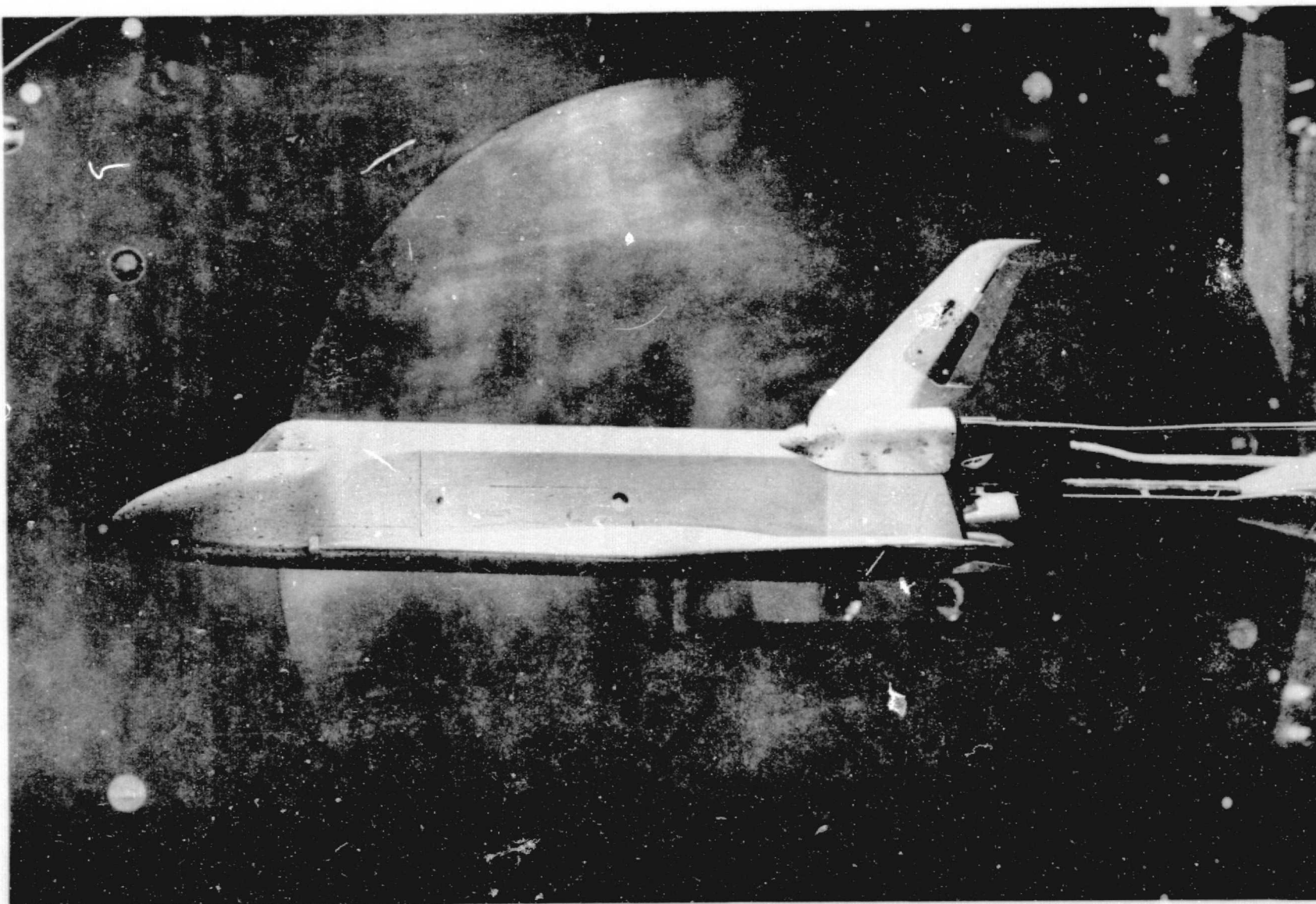
c. RCS Nozzle Adapter

Figure 2.- Continued.



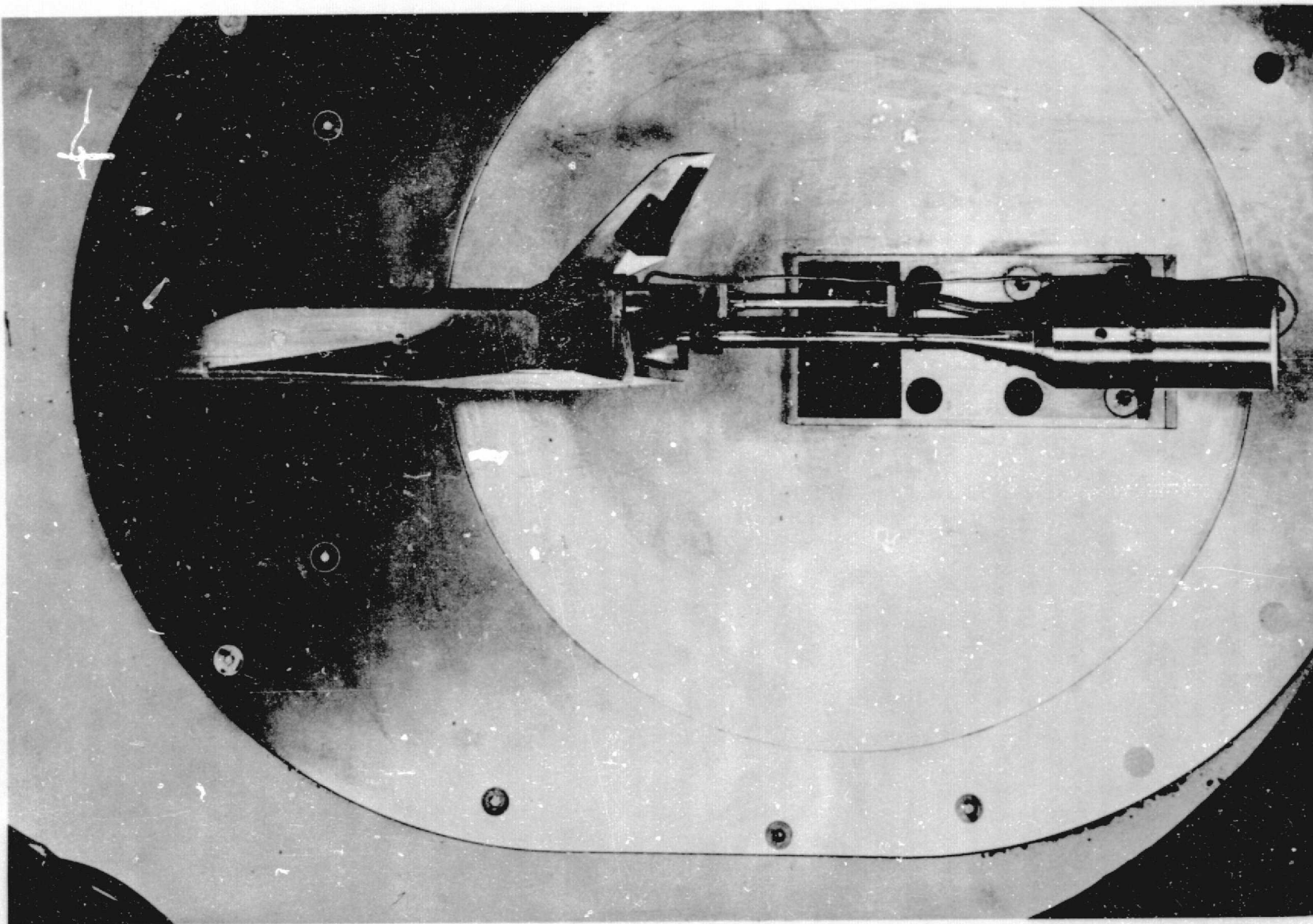
d. Model Nozzle Block Configurations

Figure 2. - Concluded.



a. Orbiter Installation Side View

Figure 3. - Model photographs.



b. Side View Of Nozzle Assembly Installed In Tunnel

Figure 3. - Concluded.

APPENDIX
TABULATED SOURCE DATA

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 1

01N49 LARC CFHT 118 (MA-22)

(RJA003) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 3/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.351	.00990	.08945	-.21521	-.02682	-.00368	-.00593	.01706	-.19563	.12668	193.46349
10.330	-.187	-.00450	.06032	-.08046	-.01040	-.00414	-.00426	.01115	-.08026	.06058	193.32766
10.330	10.028	-.02004	.04695	.09438	.00667	-.00510	-.00356	.00992	.08476	.06267	192.96325
10.330	20.226	-.03912	.04731	.40478	.01326	-.00758	-.00371	.01048	.36347	.18433	193.43519
10.330	37.589	-.07143	.04908	1.05759	-.01265	-.01005	-.00500	.00862	.83148	.65540	192.52685
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N49 LARC CFHT 118 (MA-22)

(RJA005) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 5/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.338	-.01992	.10287	-.19075	-.04768	.00048	-.00040	-.00188	-.16919	.13543	-.38093
10.330	-.164	-.01759	.07264	-.04836	-.03017	.00011	-.00047	-.00178	-.04815	.07278	-.38046
10.330	9.929	-.01475	.05835	.11662	-.01034	.00038	-.00064	-.00287	.10481	.07758	-.38096
10.330	20.255	-.01212	.06152	.43975	-.00860	-.00059	-.00139	-.00373	.39126	.20996	-.38065
10.330	35.693	-.01725	.06153	1.10630	-.03854	-.00190	-.00151	-.00942	.86259	.69543	-.41256
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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OF POOR QUALITY

(RJA006) (12 JAN 78)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	190.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

[illegible]

(RJAG11) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/OA	=	190.000
ELEVON	=	.000	BOFLAP	=	.000
NOJET	=	2.000			

[illegible]

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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Q1N31 LARC CFHT 118 (MA-22)

(RJA012) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 12/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.398	-.02424	.10021	-.17003	-.04337	.00039	-.00055	-.00286	-.15357	.12397	-.66639
10.330	-6.425	-.02255	.09347	-.14193	-.03776	.00024	-.00057	-.00303	-.13058	.10877	-.66708
10.330	-4.370	-.02235	.08741	-.11159	-.03444	.00025	-.00059	-.00305	-.10460	.09566	-.61953
10.330	-2.305	-.02276	.07817	-.08052	-.03373	.00018	-.00059	-.00315	-.07732	.08134	-.66670
10.330	-.171	-.02292	.07295	-.05027	-.03036	.00009	-.00056	-.00304	-.05006	.07310	-.66701
10.330	1.860	-.02192	.06969	-.02246	-.02603	.00006	-.00065	-.00281	-.02471	.06892	-.66666
10.330	4.044	-.02172	.06682	.01106	-.02218	-.00002	-.00067	-.00286	.00632	.06744	-.66736
10.330	5.776	-.02154	.06504	.03757	-.01874	-.00003	-.00071	-.00270	.03084	.06849	-.66670
10.330	8.043	-.02095	.06362	.08231	-.01491	-.00017	-.00078	-.00318	.07260	.07451	-.66698
10.330	10.080	-.01927	.05862	.11768	-.01021	.00031	-.00077	-.00405	.10560	.07831	-.66697
10.330	15.057	-.01837	.06170	.26727	-.01050	-.00044	-.00122	-.00422	.24207	.12901	-.66647
10.330	20.053	-.01750	.06216	.43296	-.00951	-.00077	-.00137	-.00526	.38540	.20685	-.66656
10.330	25.304	-.01751	.06256	.63729	-.01275	-.00119	-.00146	-.00703	.54940	.32895	-.66707
10.330	30.370	-.02056	.06194	.85963	-.02275	-.00175	-.00136	-.00867	.71036	.48805	-.66709
10.330	35.560	-.02335	.06157	1.09677	-.03915	-.00222	-.00146	-.01053	.85642	.68792	-.66724
	GRADIENT	.00010	-.00236	.01445	.00154	-.00003	-.00001	.00003	.01308	-.00327	-.00454

OIN31 LARC CFHT 118 (MA-22)

(RJA013) 1 12 JAN 76 1

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 13/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.342	-.00797	.09397	-.18582	-.03140	-.00204	-.00458	.01237	-.17022	.11993	96.29473
10.330	-6.347	-.01339	.09500	-.15636	-.02781	-.00211	-.00362	.01133	-.14601	.10176	96.21950
10.330	-4.283	-.01495	.07907	-.12485	-.02541	-.00221	-.00337	.01015	-.11860	.08817	96.15223
10.330	-2.323	-.01529	.07330	-.09596	-.02344	-.00228	-.00299	.00780	-.09291	.07713	96.31089
10.330	-.294	-.01626	.06774	-.07021	-.01938	-.00255	-.00299	.00676	-.06987	.06810	96.30274
10.330	2.005	-.01711	.06436	-.03631	-.01527	-.00274	-.00278	.00516	-.03854	.06305	96.19437
10.330	3.747	-.01915	.06176	-.01033	-.01190	-.00294	-.00269	.00481	-.01435	.06096	96.22900
10.330	6.062	-.02050	.05897	.02754	-.00672	-.00325	-.00267	.00481	.02116	.06154	96.17919
10.330	7.915	-.02348	.05682	.06159	-.00351	-.00335	-.00261	.00491	.05318	.06476	95.98459
10.330	10.061	-.02625	.05543	.11108	-.00097	-.00368	-.00233	.00456	.09969	.07398	95.96155
10.330	14.973	-.03322	.05357	.24603	.00335	-.00515	-.00237	.00405	.22383	.11532	96.08897
10.330	20.253	-.04192	.05444	.41993	.00614	-.00626	-.00253	.00359	.37512	.19644	96.09407
10.330	25.216	-.04818	.05450	.61237	.00309	-.00681	-.00282	.00253	.53079	.31020	96.09931
10.330	30.357	-.05597	.05457	.83880	-.00676	-.00745	-.00300	.00144	.69622	.47100	96.01565
10.330	35.515	-.06448	.05387	1.07730	-.02305	-.00803	-.00334	.00031	.84559	.66966	95.96255
	GRADIENT	-.00050	-.00214	.01416	.00173	-.00009	.00008	-.00065	.01289	-.00336	.00138

DATE 13 APR 76

HA22 - FORCE SOURCE DATA TABULATION

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01N31 LARC CFHT 118 (HA-22)

(RJA014) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 14/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.346	-.00947	.10424	-.17679	-.04618	.00043	-.00033	-.00256	-.15979	.12880	-.52382
10.330	-6.437	-.00854	.09662	-.14982	-.04022	.00027	-.00043	-.00259	-.13804	.11281	-.52391
10.330	-4.146	-.00785	.08977	-.11436	-.03603	.00028	-.00051	-.00277	-.10757	.09780	-.57169
10.330	-2.297	-.00819	.08043	-.08347	-.03526	.00022	-.00052	-.00284	-.08018	.08371	-.47649
10.330	-.273	-.00836	.07600	-.05439	-.03192	.00014	-.00046	-.00287	-.05403	.07626	-.42859
10.330	2.036	-.00725	.07202	-.02282	-.02719	.00008	-.00058	-.00260	-.02537	.07117	-.47587
10.330	3.739	-.00720	.06957	.00447	-.02389	.00003	-.00058	-.00262	-.00007	.06971	-.47623
10.330	5.854	-.00625	.06690	.03825	-.01952	-.00004	-.00066	-.00251	.03123	.07045	-.52351
10.330	8.041	-.00638	.06524	.08173	-.01533	-.00015	-.00074	-.00283	.07180	.07603	-.52383
10.330	9.991	-.00455	.06123	.12139	-.01110	.00021	-.00069	-.00387	.10893	.08136	-.47665
10.330	15.029	-.00307	.06330	.27373	-.00919	-.00042	-.00130	-.00366	.24795	.13211	-.52366
10.330	20.248	-.00355	.06355	.45521	-.00891	-.00061	-.00125	-.00481	.40508	.21716	-.47643
10.330	25.325	-.00282	.06397	.65612	-.01330	-.00098	-.00142	-.00642	.56570	.33848	-.47649
10.330	30.438	-.00505	.06309	.88692	-.02466	-.00159	-.00141	-.00817	.73272	.50372	-.47665
10.330	35.623	-.00965	.06264	1.13176	-.04264	-.00214	-.00151	-.00998	.88348	.71011	-.47631
	GRADIENT	.00011	-.00242	.01482	.00161	-.00003	-.00001	.00003	.01340	-.00341	.00927

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N31 LARC CFHT 118 (MA-22)

(RJA015) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 15/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.326	.01335	.08429	-.20276	-.01775	-.00510	-.00532	.02317	-.18842	.11277	193.43634
10.330	-6.140	.00551	.07542	-.17190	-.01415	-.00545	-.00373	.01970	-.16285	.09337	193.49470
10.330	-4.283	.00761	.06865	-.14291	-.01375	-.00527	-.00428	.01711	-.13739	.07913	192.72960
10.330	-2.270	.01052	.06399	-.11320	-.01246	-.00474	-.00491	.01366	-.11057	.06842	192.89777
10.330	-.155	.00914	.05948	-.08449	-.00876	-.00468	-.00458	.01055	-.08433	.05971	192.84822
10.330	1.995	.00702	.05576	-.05379	-.00576	-.00453	-.00447	.00956	-.05570	.05385	193.00526
10.330	3.923	.00376	.05294	-.02550	-.00057	-.00491	-.00434	.00912	-.02906	.05107	193.02516
10.330	5.901	.00111	.05079	.00652	.00354	-.00518	-.00421	.00913	.00126	.05119	192.86714
10.330	7.945	-.00316	.04828	.04560	.00638	-.00515	-.00395	.00914	.03849	.05412	192.44929
10.330	10.127	-.00782	.04628	.09594	.00841	-.00563	-.00378	.00948	.08631	.06242	192.67472
10.330	15.136	-.02009	.04543	.23336	.01213	-.00724	-.00361	.00952	.21340	.10479	192.64863
10.330	20.269	-.03092	.04652	.40144	.01525	-.00856	-.00384	.00911	.36047	.18270	192.77849
10.330	25.358	-.04484	.04772	.59274	.01541	-.00997	-.00441	.00956	.51519	.29697	192.80876
10.330	30.458	-.05720	.04729	.81174	.00613	-.01065	-.00474	.00879	.67575	.45224	192.49589
10.330	35.633	-.06967	.04700	1.05168	-.00966	-.01137	-.00520	.00790	.82738	.65091	192.64330
	GRADIENT	-.00054	-.00192	.01423	.00161	.00005	.00002	-.00097	.01313	-.06342	.03428

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N31 LARC CFHT 118 (MA-22)

(RJA0161 (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 16/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/QA
10.330	-8.283	.02507	.06687	-.24175	.01075	-.01228	-.00592	.03258	-.22959	.10100	385.61073
10.330	-6.355	.02524	.05830	-.21233	.01220	-.01221	-.00653	.02892	-.20458	.08144	385.39301
10.330	-4.224	.02746	.05288	-.17939	.01151	-.01240	-.00752	.02388	-.17500	.06595	384.40055
10.330	-2.231	.02345	.04800	-.15074	.01280	-.01183	-.00738	.02016	-.14876	.05383	384.69036
10.330	-.108	.01758	.04473	-.12009	.01559	-.01106	-.00715	.01873	-.12001	.04495	384.97890
10.330	2.054	.01440	.04116	-.08982	.01939	-.01089	-.00745	.01901	-.09124	.03791	385.09651
10.330	3.960	.00981	.03850	-.05860	.02312	-.01064	-.00742	.01897	-.06112	.03437	384.75763
10.330	5.941	.00551	.03589	-.02536	.02639	-.01027	-.00744	.01921	-.02894	.03307	384.18990
10.330	8.160	-.00097	.03314	.01892	.02870	-.01017	-.00719	.01944	.01403	.03549	384.75847
10.330	10.106	-.00493	.03165	.06690	.02957	-.01031	-.00712	.01945	.06031	.04289	383.79160
10.330	15.177	-.02263	.03186	.20928	.03103	-.01144	-.00694	.01979	.19364	.08554	383.72249
10.330	20.273	-.03924	.03323	.37590	.03382	-.01271	-.00721	.02030	.34110	.16142	384.26299
10.330	25.377	-.05615	.03457	.57035	.03321	-.01390	-.00776	.02041	.50050	.27568	384.30656
10.330	30.516	-.07509	.03483	.78851	.02577	-.01488	-.00837	.02063	.66161	.43039	383.44699
10.330	35.507	-.09468	.03451	1.01330	.01254	-.01590	-.00897	.02020	.80482	.61662	383.96036
	GRADIENT	-.00215	-.00172	.01464	.00144	.00022	.00001	-.00053	.01381	-.00383	.05497

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 8

Q1N34 LARC CFHT 118 (MA-22)

(RJA017) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 17/ 0 RN/L = .93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/QA
10.330	-8.287	.00698	.09451	-.17841	-.03395	-.00105	-.00355	.00848	-.16292	.11924	96.69458
10.330	-6.295	.00589	.08629	-.15086	-.02874	-.00120	-.00308	.00773	-.14049	.10231	96.64012
10.330	-4.279	.00322	.08001	-.11889	-.02727	-.00135	-.00278	.00674	-.11259	.08866	96.63157
10.330	-2.255	.00235	.07414	-.08898	-.02577	-.00135	-.00262	.00582	-.08600	.07758	96.76551
10.330	-.243	.00024	.06921	-.06519	-.02029	-.00208	-.00210	.00482	-.06490	.06949	96.80699
10.330	1.941	-.00061	.06584	-.03650	-.01678	-.00225	-.00209	.00444	-.03860	.06464	96.60473
10.330	4.069	-.00114	.06238	-.00294	-.01301	-.00234	-.00205	.00405	-.00736	.06202	96.77396
10.330	5.752	-.00326	.05989	.02346	-.00940	-.00224	-.00202	.00404	.01734	.06194	96.71011
10.330	7.973	-.00423	.05785	.06642	-.00560	-.00261	-.00208	.00429	.05775	.06650	96.82248
10.330	9.965	-.00654	.05641	.10797	-.00241	-.00314	-.00199	.00456	.09658	.07424	96.68603
10.330	15.230	-.01354	.05454	.25069	.00246	-.00455	-.00220	.00380	.22756	.11848	96.75225
10.330	20.307	-.01780	.05517	.42182	.00239	-.00496	-.00233	.00239	.37646	.19814	96.84891
10.330	25.395	-.02495	.05572	.61795	.00016	-.00570	-.00268	.00148	.53434	.31536	96.88863
10.330	30.582	-.03285	.05504	.84189	-.00920	-.00640	-.00287	.00038	.69678	.47572	96.85262
10.330	35.634	-.03995	.05450	1.07630	-.02404	-.00696	-.00321	-.00094	.84302	.67135	97.67630
	GRADIENT	-.00056	-.00209	.01369	.00180	-.00014	.00009	-.00032	.01241	-.00317	.00599

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N34 LARC CFHT 118 (MA-22)

(RJAD18) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 18/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/OA
10.330	-8.364	.01606	.08977	-.18906	-.02533	-.00297	-.00521	.01375	-.17400	.11632	192.57535
10.330	-6.383	.00886	.08108	-.16453	-.02031	-.00353	-.00412	.01504	-.15450	.09887	192.36961
10.330	-4.284	.00549	.07511	-.13249	-.01806	-.00372	-.00355	.01313	-.12651	.08480	191.88744
10.330	-2.305	.00475	.06839	-.10391	-.01657	-.00369	-.00324	.01001	-.10107	.07252	192.35836
10.330	-.272	.00363	.06364	-.07658	-.01308	-.00370	-.00307	.00772	-.07628	.06400	192.33092
10.330	1.808	.00271	.05995	-.04847	-.00955	-.00375	-.00308	.00657	-.05034	.05839	192.35893
10.330	3.785	.00018	.05726	-.01864	-.00534	-.00404	-.00288	.00596	-.02238	.05590	192.11034
10.330	5.930	-.00137	.05454	.01689	-.00126	-.00384	-.00284	.00635	.01116	.05600	191.89734
10.330	7.930	-.00385	.05267	.05727	.00106	-.00366	-.00277	.00647	.04946	.06006	192.04321
10.330	10.186	-.00781	.05018	.10679	.00387	-.00437	-.00271	.00687	.09623	.06827	192.00450
10.330	15.147	-.01563	.04874	.24411	.00731	-.00572	-.00278	.00654	.22289	.11083	192.36214
10.330	20.263	-.02673	.04972	.41005	.01110	-.00712	-.00321	.00652	.36746	.18865	192.41112
10.330	25.377	-.03783	.05074	.60520	.00971	-.00833	-.00359	.00616	.52506	.30521	192.51131
10.330	30.344	-.04946	.05012	.82186	.00092	-.00916	-.00403	.00588	.68395	.45845	192.25855
10.330	35.479	-.06027	.04991	1.06000	-.01460	-.00995	-.00446	.00470	.83422	.65587	192.22184
	GRADIENT	-.00062	-.00218	.01398	.00160	-.00003	.00007	-.00088	.01279	-.00355	.02190

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OF POOR QUALITY

01N34 LARC CFHT 118 (MA-22)

(RJA019) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 19/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEL	CYN	CY	CL	CD	T/QA
10.330	-8.374	.01838	.08604	-.20319	-.01653	-.00525	-.00538	.02002	-.18849	.11471	258.76093
10.330	-6.424	.00562	.07732	-.17957	-.01169	-.00580	-.00326	.01889	-.16979	.09693	258.47007
10.330	-4.324	.00653	.06994	-.14450	-.01159	-.00573	-.00355	.01537	-.13881	.08063	258.53403
10.330	-2.078	.00798	.06373	-.11269	-.00971	-.00534	-.00394	.01164	-.11030	.06777	258.30649
10.330	-.170	.00558	.05990	-.08582	-.00647	-.00519	-.00375	.00936	-.08564	.06015	257.94477
10.330	1.995	.00332	.05619	-.05539	-.00314	-.00515	-.00365	.00823	-.05731	.05423	257.96721
10.330	3.907	.00116	.05343	-.02644	.00117	-.00534	-.00352	.00784	-.03001	.05150	257.84373
10.330	5.997	-.00073	.05115	.01065	.00464	-.00487	-.00346	.00825	.00525	.05198	257.79306
10.330	7.927	-.00399	.04907	.05054	.00678	-.00479	-.00335	.00838	.04329	.05557	258.33871
10.330	9.977	-.00789	.04689	.09487	.00861	-.00528	-.00330	.00895	.08531	.06262	258.29969
10.330	15.136	-.01772	.04558	.23936	.01136	-.00647	-.00329	.00899	.21915	.10650	258.19690
10.330	20.210	-.02932	.04638	.40299	.01547	-.00798	-.00368	.00917	.36216	.18274	257.78871
10.330	25.457	-.04306	.04774	.60627	.01511	-.00952	-.00431	.00920	.52689	.30369	257.79742
10.330	30.477	-.05662	.04759	.82036	.00630	-.01056	-.00462	.00851	.68287	.45709	257.80077
10.330	35.640	-.06905	.04757	1.06390	-.00923	-.01144	-.00524	.00771	.83691	.65859	257.85759
	GRADIENT	-.00074	-.00198	.01429	.00156	.00005	.00002	-.00090	.01317	-.00351	-.08372

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MA22 - FORCE SOURCE DATA TABULATION

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01N47 LARC CFHT 118 (MA-22)

(RJA020) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 20/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.303	.01015	.09533	-.18098	-.03403	-.00120	-.00404	.00914	-.16531	.12047	96.37688
10.330	-6.356	.00480	.08695	-.15396	-.02943	-.00138	-.00329	.00888	-.14339	.10347	96.38834
10.330	-4.304	.00448	.08121	-.12156	-.02796	-.00147	-.00305	.00732	-.11512	.09010	96.13715
10.330	-2.287	.00466	.07518	-.09198	-.02568	-.00153	-.00310	.00645	-.08891	.07879	96.15069
10.330	-.282	.00183	.06935	-.06816	-.02078	-.00211	-.00254	.00519	-.06782	.06968	96.09489
10.330	1.997	.00155	.06581	-.03567	-.01650	-.00241	-.00253	.00462	-.03794	.06453	96.10202
10.330	3.907	.00028	.06281	-.00629	-.01273	-.00264	-.00247	.00418	-.01056	.06223	96.18704
10.330	5.932	-.00122	.06065	.02663	-.00821	-.00287	-.00252	.00462	.02022	.06308	96.05071
10.330	7.938	-.00299	.05881	.06354	-.00430	-.00319	-.00254	.00465	.05480	.06702	96.12175
10.330	10.091	-.00531	.05660	.10899	-.00015	-.00363	-.00243	.00451	.09739	.07482	96.02680
10.330	15.198	-.01213	.05504	.25469	.00330	-.00485	-.00252	.00360	.23135	.11989	96.06599
10.330	20.181	-.01781	.05540	.42020	.00433	-.00527	-.00272	.00259	.37329	.19696	95.82115
10.330	25.395	-.02422	.05555	.62306	.00107	-.00586	-.00308	.00183	.53903	.31739	95.11020
10.330	30.514	-.03160	.05470	.84776	-.00816	-.00637	-.00344	.00092	.70258	.47757	95.92385
	GRADIENT	-.00055	-.00223	.01385	.00191	-.00016	.00008	-.00039	.01256	-.00338	.00240

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MA22 - FORCE SOURCE DATA TABULATION

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01N47 LARC CFHT 118 (MA-22)

(RJA021) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8050 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 21/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/OA
10.330	-8.341	.01929	.08869	-.19381	-.02318	-.00331	-.00614	.01663	-.17889	.11587	192.85795
10.330	-6.477	.00858	.08058	-.16963	-.01832	-.00393	-.00434	.01739	-.15946	.09920	192.45894
10.330	-4.275	.00684	.07389	-.13600	-.01719	-.00394	-.00420	.01491	-.13012	.08382	192.20792
10.330	-2.295	.00887	.06789	-.10648	-.01592	-.00368	-.00435	.01188	-.10368	.07210	192.04034
10.330	-.185	.00644	.06308	-.07920	-.01180	-.00380	-.00394	.00869	-.07900	.06334	192.01883
10.330	1.819	.00799	.05979	-.05099	-.00824	-.00390	-.00398	.00767	-.05286	.05814	192.11312
10.330	3.909	.00343	.05672	-.01972	-.00353	-.00434	-.00382	.00721	-.02354	.05525	192.00532
10.330	6.061	.00000	.05396	.01676	.00079	-.00452	-.00375	.00742	.01097	.05543	192.10949
10.330	7.938	-.00127	.05173	.05261	.00319	-.00424	-.00358	.00761	.04496	.05850	191.96084
10.330	10.096	-.00542	.04969	.10115	.00607	-.00496	-.00350	.00778	.09087	.06666	191.95111
10.330	15.149	-.01788	.04891	.24090	.01071	-.00691	-.00346	.00763	.21974	.11017	192.05225
10.330	20.100	-.02694	.05008	.40238	.01410	-.00794	-.00381	.00732	.36066	.18531	192.05225
10.330	25.257	-.03944	.05040	.60072	.01277	-.00891	-.00429	.00759	.52179	.30189	192.06221
10.330	30.538	-.05034	.05054	.83323	.00237	-.00956	-.00460	.00671	.69198	.46690	192.04962
10.330	35.513	-.06031	.05020	1.06468	-.01262	-.01008	-.00511	.00583	.83747	.65932	192.11357
	GRADIENT	-.00038	-.00207	.01406	.00171	-.00005	.00006	-.00096	.01289	-.00347	-.01619

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MA22 - FORCE SOURCE DATA TABULATION

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01N47 LARC CFHT 118 (MA-22)

(RJA022) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .003 T/OA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 22/ 0		RN/L = .95		GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA		
10.330	-8.321	.01354	.08259	-.20922	-.01356	-.00568	-.00529	.02428	-.19507	.11200	258.32840		
10.330	-6.261	.00654	.07448	-.17935	-.01049	-.00511	-.00387	.01996	-.17016	.09359	258.64320		
10.330	-4.324	.01031	.06768	-.14809	-.01047	-.00589	-.00470	.01741	-.14256	.07866	258.64367		
10.330	-2.273	.01205	.06279	-.11805	-.00857	-.00545	-.00528	.01407	-.11547	.06742	258.61973		
10.330	-.139	.01063	.05822	-.08932	-.00518	-.00536	-.00489	.01093	-.08917	.05844	258.33194		
10.330	2.014	.00653	.05454	-.05837	-.00119	-.00522	-.00487	.01044	-.06025	.05246	258.23982		
10.330	3.875	.00511	.05213	-.03068	.00302	-.00546	-.00478	.01002	-.03414	.04994	258.51826		
10.330	6.022	.00213	.04917	.00569	.00736	-.00553	-.00461	.01002	.00050	.04949	258.31180		
10.330	7.960	-.00108	.04727	.04512	.00957	-.00530	-.00441	.01014	.03814	.05308	258.43784		
10.330	10.053	-.00658	.04495	.09161	.01146	-.00597	-.00441	.01067	.08236	.06025	258.23455		
10.330	15.157	-.01920	.04448	.23295	.01548	-.00777	-.00430	.01084	.21321	.10385	258.24363		
10.330	20.180	-.03152	.04585	.39914	.01929	-.00909	-.00463	.01084	.35882	.18073	258.01900		
10.330	25.406	-.04568	.04653	.59624	.01947	-.01049	-.00519	.01109	.51862	.29783	258.27590		
10.330	30.384	-.05984	.04600	.81176	.01049	-.01138	-.00552	.01057	.67701	.45027	258.36520		
10.330	35.643	-.07149	.04581	1.05877	-.00551	-.01188	-.00609	.00975	.83373	.65421	258.13770		
	GRADIENT	-.00077	-.00191	.01423	.00166	.00005	.00001	-.00089	.01315	-.00351	-.03149		

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MA22 - FORCE SOURCE DATA TABULATION

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01N43 LARC CFHT 118 (MA-22)

(RJA023) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 23/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.488	.00748	.09678	-.18143	-.03612	-.00096	-.00377	.00763	-.16516	.12250	96.21354
10.330	-6.189	.00335	.08720	-.14887	-.03016	-.00137	-.00286	.00741	-.13860	.10274	96.19272
10.330	-4.163	.00340	.08126	-.11746	-.02851	-.00137	-.00285	.00621	-.11125	.08957	96.19152
10.330	-2.259	.00202	.07552	-.08972	-.02674	-.00143	-.00283	.00538	-.08668	.07900	96.18886
10.330	-.207	.00042	.06986	-.06458	-.02159	-.00203	-.00227	.00416	-.06432	.07009	96.12479
10.330	1.940	-.00023	.06653	-.03432	-.01749	-.00227	-.00231	.00381	-.03656	.06533	96.08568
10.330	4.059	-.00161	.06336	-.00232	-.01349	-.00258	-.00225	.00344	-.00680	.06304	96.19869
10.330	5.944	-.00289	.06077	.02646	-.00934	-.00282	-.00232	.00384	.02003	.06318	96.08723
10.330	8.004	-.00487	.05900	.06649	-.00501	-.00321	-.00233	.00391	.05763	.06768	96.03511
10.330	10.151	-.00882	.05751	.11247	-.00135	-.00373	-.00216	.00376	.10057	.07643	95.96814
10.330	15.086	-.01421	.05538	.25055	.00206	-.00478	-.00232	.00309	.22750	.11868	96.10398
10.330	20.232	-.01871	.05655	.42592	.00207	-.00504	-.00243	.00156	.38009	.20035	96.18847
10.330	25.178	-.02383	.05633	.61710	.00010	-.00565	-.00283	.00082	.53451	.31352	96.03270
10.330	30.436	-.03261	.05572	.84715	-.01018	-.00627	-.00299	-.00013	.70218	.47719	96.06130
10.330	35.587	-.03849	.05551	1.08670	-.02535	-.00682	-.00350	-.00129	.85143	.67754	96.17725
	GRADIENT	-.00059	-.00216	.01384	.00191	-.00016	.00008	-.00034	.01255	-.00321	-.00417

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N43 LARC CFHT 118 (MA-22)

(RJA024) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 24/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.437	-.00611	.10103	-.17290	-.04349	.00040	-.00047	-.00279	-.15621	.12531	-.22316
10.330	-6.208	-.00540	.09324	-.14155	-.03720	.00024	-.00052	-.00291	-.13064	.10900	-.22331
10.330	-4.327	-.00510	.08745	-.11368	-.03447	.00024	-.00056	-.00280	-.10676	.09578	-.22342
10.330	-2.156	-.00551	.07814	-.08021	-.03386	.00016	-.00053	-.00310	-.07721	.08110	-.22344
10.330	-.269	-.00503	.07375	-.05297	-.03088	.00010	-.00051	-.00289	-.05262	.07400	-.24064
10.330	1.854	-.00411	.07065	-.02268	-.02653	.00008	-.00057	-.00281	-.02495	.06988	-.18918
10.330	3.844	-.00510	.06763	.00565	-.02267	.00002	-.00063	-.00266	.00110	.06786	-.22341
10.330	5.726	-.00378	.06577	.03735	-.01911	.00000	-.00062	-.00284	.03060	.06917	-.20631
10.330	8.068	-.00395	.06377	.08160	-.01512	-.00012	-.00074	-.00273	.07184	.07459	-.22343
10.330	10.000	-.00166	.05910	.11609	-.01019	.00028	-.00077	-.00371	.10406	.07836	-.20625
10.330	14.942	.00002	.06233	.26621	-.01076	-.00044	-.00127	-.00419	.24113	.12887	-.22350
10.330	20.200	.00038	.06237	.44069	-.00936	-.00078	-.00153	-.00528	.39205	.21071	-.20613
10.330	25.168	-.00098	.06265	.63663	-.01245	-.00118	-.00160	-.00684	.54955	.32744	-.22357
10.330	30.450	-.00428	.06212	.86787	-.02254	-.00173	-.00160	-.00850	.71658	.49338	-.20623
10.330	35.600	-.00765	.06208	1.11049	-.03856	-.00220	-.00176	-.01045	.86681	.69691	-.20626
	GRADIENT	.00007	-.00232	.01456	.00152	-.00003	-.00001	.00003	.01317	-.00330	.00173

OIN43 LARC CFHT 118 (MA-22)

(RJA025) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 25/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/QA
10.330	-8.263	-.00346	.09953	-.16799	-.04336	.00037	-.00044	-.00241	-.15194	.12264	-.18948
10.330	-6.375	-.00357	.09329	-.14194	-.03791	.00021	-.00043	-.00265	-.13070	.10848	-.17220
10.330	-4.361	-.00355	.08666	-.11262	-.03459	.00023	-.00044	-.00247	-.10570	.09497	-.20661
10.330	-2.281	-.00271	.07775	-.08012	-.03395	.00018	-.00044	-.00264	-.07697	.08087	-.20660
10.330	-.222	-.00269	.07335	-.05066	-.03075	.00011	-.00038	-.00291	-.05038	.07355	-.17215
10.330	1.854	-.00166	.06993	-.02283	-.02647	.00009	-.00050	-.00255	-.02508	.06916	-.15487
10.330	4.104	-.00209	.06676	.01069	-.02254	.00003	-.00051	-.00266	.00588	.06735	-.17233
10.330	5.886	-.00135	.06517	.03932	-.01908	.00000	-.00052	-.00272	.03243	.06886	-.18929
10.330	8.031	-.00078	.06347	.08131	-.01520	-.00008	-.00063	-.00284	.07164	.07421	-.15480
10.330	9.969	.00109	.05917	.11556	-.01039	.00040	-.00061	-.00420	.10357	.07828	-.17219
10.330	15.085	.00259	.06139	.26835	-.01043	-.00038	-.00123	-.00377	.24312	.12911	-.17226
10.330	20.172	.00203	.06238	.43670	-.03946	-.00063	-.00130	-.00519	.38840	.20914	-.17215
10.330	25.295	.00164	.06201	.63321	-.01258	-.00101	-.00143	-.00661	.54600	.32662	-.17220
10.330	30.436	-.00106	.06164	.85684	-.02231	-.00153	-.00140	-.00822	.70754	.48720	-.17203
10.330	35.559	-.00510	.06149	1.09654	-.03843	-.00204	-.00157	-.01013	.85630	.68771	-.17222
	GRADIENT	.00019	-.00225	.01443	.00150	-.00002	-.00001	-.00001	.01306	-.00316	.00565

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 17

OIN43 LARC CFHT 118 (MA-22)

(RJA026) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 26/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEL	CYN	CY	CL	CD	T/OA
10.330	-8.445	.01908	.08998	-.19127	-.02510	-.00313	-.00569	.01568	-.17598	.11709	191.66183
10.330	-6.303	.00957	.08081	-.16372	-.02010	-.00369	-.00414	.01635	-.15386	.09830	191.70978
10.330	-4.266	.00681	.07504	-.13183	-.01871	-.00385	-.00365	.01404	-.12588	.08463	191.50339
10.330	-2.252	.00716	.06802	-.10362	-.01700	-.00368	-.00368	.01090	-.10086	.07204	191.73342
10.330	-.197	.00670	.06400	-.07619	-.01306	-.00372	-.00347	.00822	-.07597	.06426	191.65376
10.330	2.019	.00557	.05974	-.04652	-.00938	-.00391	-.00347	.00701	-.04860	.05806	191.71843
10.330	3.976	.00320	.05727	-.01900	-.00479	-.00429	-.00335	.00664	-.02283	.05585	191.61470
10.330	5.936	.00084	.05478	.01491	-.00056	-.00449	-.00326	.00704	.00917	.05602	191.56189
10.330	8.083	-.00258	.05271	.05760	.00248	-.00432	-.00312	.00726	.04961	.06029	191.15505
10.330	10.019	-.00578	.05056	.10041	.00540	-.00504	-.00307	.00752	.09008	.06725	191.61247
10.330	15.109	-.01732	.04956	.23704	.01036	-.00696	-.00293	.00696	.21593	.10964	191.65377
10.330	20.400	-.02799	.05084	.41167	.01328	-.00788	-.00324	.00673	.36813	.19115	191.31053
10.330	25.441	-.03839	.05117	.60872	.01022	-.00866	-.00360	.00646	.52771	.30770	191.48469
10.330	30.468	-.04751	.05070	.82466	.00088	-.00918	-.00404	.00611	.68507	.46186	191.35453
10.330	35.568	-.05841	.05058	1.06130	-.01512	-.00972	-.00452	.00479	.83387	.65847	191.41747
	GRADIENT	-.00043	-.00213	.01375	.00172	-.00005	.00004	-.00091	.01256	-.00348	.01026

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N43 LARC CFHT 118 (MA-22)

(RJA027) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 27/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.238	.01453	.08347	-.20478	-.01514	-.00560	-.00491	.02212	-.19070	.11195	257.66043
10.330	-6.294	.00729	.07557	-.17735	-.01206	-.00606	-.00337	.01837	-.16799	.09455	258.00708
10.330	-4.255	.01000	.06900	-.14204	-.01212	-.00583	-.00420	.01544	-.13653	.07934	258.02163
10.330	-2.241	.01305	.06389	-.11480	-.01030	-.00536	-.00471	.01243	-.11221	.06833	257.72572
10.330	-.227	.01009	.06001	-.08752	-.00682	-.00538	-.00432	.00919	-.08728	.06036	257.73579
10.330	1.868	.00783	.05617	-.05828	-.00301	-.00527	-.00428	.00858	-.06008	.05424	257.64877
10.330	4.084	.00474	.05271	-.02660	.00204	-.00553	-.00420	.00833	-.03028	.05068	257.54260
10.330	5.982	.00269	.05041	.00577	.00595	-.00554	-.00418	.00858	.00049	.05073	257.56738
10.330	7.941	-.00083	.04827	.04499	.00824	-.00533	-.00396	.00891	.03789	.05403	257.28434
10.330	10.147	-.00570	.04650	.09435	.01080	-.00618	-.00393	.00927	.08468	.06239	257.53831
10.330	15.121	-.01917	.04613	.23127	.01563	-.00811	-.00371	.00914	.21123	.10486	257.31034
10.330	20.230	-.03091	.04713	.39783	.01892	-.00921	-.00407	.00916	.35700	.18179	257.49656
10.330	25.335	-.04511	.04743	.59095	.01826	-.01036	-.00459	.00955	.51382	.29575	257.39758
10.330	30.544	-.05910	.04770	.81838	.00840	-.01113	-.00491	.00924	.68058	.45699	257.42577
10.330	35.626	-.07052	.04732	1.05369	-.00716	-.01169	-.00546	.00838	.82892	.65222	257.13590
	GRADIENT	-.00076	-.00104	.01383	.00172	.00003	.00002	-.00086	.01274	-.00342	-.04964

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(R:JA028) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 28/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.311	.00024	.09566	-.17803	-.03597	-.00061	-.00125	.00044	-.16234	.12038	96.28264
10.330	-6.338	-.00328	.08853	-.15152	-.03078	-.00100	-.00061	.00008	-.14092	.10473	96.19042
10.330	-4.309	-.00555	.08201	-.12113	-.02824	-.00123	.00005	-.00040	-.11463	.09088	96.17090
10.330	-2.306	-.01168	.07440	-.09241	-.02892	-.00263	.00205	-.00899	-.08934	.07805	96.32465
10.330	-.311	-.01681	.06945	-.06383	-.02697	-.00307	.00293	-.00899	-.06345	.06979	96.28197
10.330	1.819	-.02306	.06621	-.03992	-.02220	-.00447	.00409	-.01069	-.04200	.06491	96.22320
10.330	3.769	-.02587	.06383	-.01379	-.01784	-.00488	.00411	-.01065	-.01795	.06279	96.11017
10.330	5.894	-.02781	.06131	.02089	-.01233	-.00520	.00382	-.00994	.01448	.06313	96.31462
10.330	8.025	-.02568	.05922	.06432	-.00827	-.00512	.00294	-.00746	.05543	.06762	96.28257
10.330	10.022	-.02532	.05737	.10789	-.00549	-.00531	.00193	-.00470	.09626	.07527	96.30702
10.330	15.062	-.01563	.05707	.25295	-.00254	-.00438	-.00078	-.00088	.22943	.12084	96.24574
10.330	20.205	-.02194	.05723	.42120	.00005	-.00484	-.00056	-.00261	.37551	.19918	96.21132
10.330	25.294	-.03242	.05769	.62019	-.00282	-.00581	.00005	-.00559	.53608	.31715	96.37136
10.330	30.518	-.03279	.05719	.84890	-.01194	-.00563	-.00086	-.00592	.70226	.48034	96.35988
10.330	35.437	-.03404	.05648	1.07825	-.02744	-.00580	-.00194	-.00606	.84576	.67119	96.43194
	GRADIENT	-.00257	-.00219	.01317	.00136	-.00045	.00050	-.00109	.01186	-.00342	-.01104

01N79N78 LARC CFHT 118 (MA-22)

(RJA029) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 29/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/QA
10.330	-8.295	-.00359	.08979	-.18997	-.02948	-.00320	.00029	.00073	-.17503	.11626	191.71035
10.330	-6.315	-.01301	.08207	-.16094	-.02552	-.00410	.00252	-.00253	-.15094	.09927	191.50618
10.330	-4.291	-.01848	.07593	-.13029	-.02288	-.00473	.00330	-.00427	-.12425	.08547	191.69489
10.330	-2.321	-.03359	.06953	-.10789	-.02514	-.00812	.00798	-.01913	-.10499	.07384	191.81959
10.330	-.306	-.03977	.06548	-.08824	-.02098	-.00864	.00852	-.02006	-.08789	.06595	191.35481
10.330	1.799	-.03819	.06252	-.06256	-.01632	-.00837	.00735	-.01652	-.06450	.06052	191.26844
10.330	3.753	-.03569	.05944	-.03313	-.01154	-.00788	.00587	-.01273	-.03695	.05714	191.26079
10.330	5.944	-.03170	.05608	.00543	-.00662	-.00721	.00421	-.00941	-.00041	.05634	191.46514
10.330	7.918	-.02775	.05362	.04579	-.00413	-.00619	.00259	-.00519	.03797	.05942	191.38551
10.330	10.147	-.02432	.05231	.09734	-.00195	-.00588	.00111	-.00189	.08660	.06864	191.39828
10.330	15.095	-.02716	.05200	.23791	.00272	-.00673	-.00031	.00041	.21616	.11216	191.17206
10.330	20.387	-.03479	.05348	.41804	.00432	-.00727	-.00025	-.00160	.37322	.19577	191.32678
10.330	25.362	-.04342	.05380	.61403	.00317	-.00794	-.00043	-.00276	.53180	.31163	191.29401
10.330	30.606	-.04977	.05307	.84180	-.00576	-.00814	-.00096	-.00359	.69750	.47427	191.23713
10.330	35.577	-.05570	.05317	1.07195	-.02108	-.00847	-.00135	-.00489	.84092	.66690	190.86200
	GRADIENT	-.00192	-.00198	.01186	.00156	-.00032	.00022	-.00070	.01064	-.00346	-.07041

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(RJA030) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. - 30/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.392	-.04294	.07524	-.22170	-.01473	-.01444	.01354	-.01904	-.20835	.10578	384.86359
10.330	-6.451	-.04667	.06949	-.19373	-.00878	-.01306	.01223	-.01457	-.18469	.09082	384.63053
10.330	-4.318	-.05982	.06463	-.16910	-.00851	-.01817	.01729	-.03732	-.16376	.07717	384.04053
10.330	-2.285	-.05702	.05952	-.14320	-.00851	-.01654	.01433	-.03111	-.14071	.06518	383.82047
10.330	-.176	-.04955	.05473	-.11498	-.00710	-.01448	.01042	-.01881	-.11481	.05508	384.33849
10.330	2.006	-.03920	.05207	-.08629	-.00464	-.01219	.00623	-.01082	-.08806	.04902	384.07717
10.330	3.925	-.03273	.05032	-.05640	-.00148	-.01040	.00373	-.00648	-.05971	.04635	383.76323
10.330	5.876	-.02439	.04816	-.02132	.00123	-.00869	.00150	-.00254	-.02614	.04373	383.55440
10.330	8.053	-.02051	.04560	.02418	.00445	-.00766	-.00009	.00092	.01756	.04853	383.85836
10.330	10.079	-.02342	.04381	.07010	.00618	-.00774	-.00025	.00136	.06135	.05540	383.30725
10.330	15.301	-.04172	.04461	.22445	.01096	-.01022	.00022	.00157	.20472	.10225	383.36229
10.330	20.370	-.05887	.04566	.39324	.01406	-.01144	.00038	.00112	.35275	.17969	382.99011
10.330	25.373	-.07368	.04577	.59111	.01438	-.01221	.00080	-.00180	.51447	.29465	383.07856
10.330	30.623	-.08477	.04556	.82098	.00533	-.01284	.00006	-.00239	.68328	.45740	383.24553
10.330	35.627	-.09596	.04506	1.05364	-.00921	-.01338	-.00046	-.00385	.83017	.65038	383.27364
	GRADIENT	.00347	-.00174	.01358	.00086	.00096	-.00170	.00395	.01254	-.00375	-.01371

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 OF POOR QUALITY

01N79N78 LARC CFHT 118 (MA-22)

(RJA031) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVCN = -30.000 BDCLAP = .000
 NO.JET = 2.000

RUN NO. 31/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.337	-.00931	.12437	-.23106	-.00698	.00122	-.00016	-.00162	-.21058	.15658	-.40539
10.330	-6.335	-.00722	.11360	-.19514	-.00593	.00073	-.00050	-.00122	-.18141	.13444	-.40551
10.330	-4.203	-.00653	.10134	-.15029	-.01169	.00075	-.00037	-.00196	-.14246	.11208	-.46806
10.330	-2.316	-.00638	.09010	-.11273	-.01534	.00072	-.00034	-.00189	-.10900	.09458	-.40573
10.330	-.180	-.00427	.08332	-.07671	-.01505	.00056	-.00031	-.00204	-.07645	.08356	-.43737
10.330	2.069	-.00485	.07757	-.04293	-.01315	.00041	-.00042	-.00179	-.04571	.07597	-.43710
10.330	4.130	-.00374	.07228	-.00840	-.01064	.00033	-.00049	-.00179	-.01359	.07149	-.43701
10.330	5.992	-.00371	.06846	.02361	-.00774	.00024	-.00054	-.00220	.01634	.07055	-.43747
10.330	7.926	-.00320	.06546	.05984	-.00405	.00013	-.00063	-.00231	.05024	.07309	-.40869
10.330	9.912	-.00169	.06316	.10314	-.00056	.00002	-.00074	-.00300	.09073	.07997	-.37513
10.330	15.127	-.00048	.06254	.25014	.00629	-.00022	-.00111	-.00370	.22515	.12565	-.40658
10.330	20.239	.00168	.06372	.41298	.01487	-.00043	-.00139	-.00533	.36544	.20265	-.37514
10.330	25.382	.00144	.06402	.59909	.02251	-.00077	-.00151	-.00711	.51382	.31464	-.43733
10.330	30.409	-.00052	.06438	.80333	.02569	-.00119	-.00151	-.00900	.66023	.46214	-.40612
10.330	35.796	-.00248	.06466	1.03819	.02442	-.00162	-.00162	-.01146	.80426	.65968	-.40605
	GRADIENT	.00034	-.00334	.01677	.00022	-.00005	-.00002	.00002	.01523	-.00471	.00131

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 23

Q1N79N78 LARC CFHT 118 (MA-22)

(RJA032) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 32/ 0 RN/L * .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CLL	CYN	CY	CL	CD	T/QA
10.330	-8.456	-.00809	.11876	-.23633	-.00136	.00067	.00028	-.00380	-.21630	.15222	96.58848
10.330	-6.184	-.01076	.10588	-.19827	-.00142	-.00044	.00035	.00067	-.18571	.12662	96.43330
10.330	-4.320	-.01334	.09451	-.15861	-.01027	-.00123	.00214	-.00846	-.15104	.10619	96.61458
10.330	-2.148	-.02044	.08506	-.11830	-.01498	-.00178	.00345	-.00961	-.11503	.08943	96.46990
10.330	-.256	-.02287	.07821	-.08827	-.01677	-.00239	.00406	-.00998	-.08792	.07861	96.42392
10.330	1.880	-.02732	.07294	-.05438	-.01402	-.00302	.00479	-.01096	-.05675	.07112	96.45096
10.330	3.892	-.02922	.06855	-.02395	-.01023	-.00333	.00476	-.01086	-.02855	.06676	96.47441
10.330	5.759	-.02880	.06532	.01058	-.00699	-.00324	.00432	-.01046	.00397	.06606	96.35329
10.330	7.999	-.02604	.06124	.05345	-.00184	-.00307	.00343	-.00822	.04441	.06808	96.38609
10.330	9.992	-.02443	.05855	.09605	.00074	-.00287	.00266	-.00562	.08444	.07433	96.42636
10.330	15.170	-.01001	.05660	.24366	.00838	-.00191	-.00056	-.00111	.22036	.11839	96.34756
10.330	20.283	-.01635	.05735	.40206	.01875	-.00300	-.00032	-.00360	.35725	.19317	96.49806
10.330	25.379	-.02428	.05840	.58449	.02828	-.00390	.00048	-.00672	.50306	.30327	96.36622
10.330	30.412	-.01948	.05875	.78759	.03244	-.00339	-.00060	-.00743	.64949	.44936	96.25488
10.330	35.577	-.02219	.05823	1.01201	.03082	-.00376	-.00125	-.00808	.78922	.63616	96.34229
	GRADIENT	-.00189	-.00313	.01630	.00005	-.00027	.00032	-.00030	.01483	-.00475	-.01470

01N79N78 LARC CFHT 118 (MA-22)

(RJA033) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 33/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.327	-.01263	.11347	-.24086	.00258	-.00054	.00173	-.00653	-.22169	.14715	192.42439
10.330	-6.255	-.01974	.10086	-.20322	.00120	-.00281	.00375	-.00600	-.19102	.12240	192.70890
10.330	-4.259	-.03533	.08986	-.16816	-.00811	-.00560	.00845	-.02062	-.16102	.10210	192.74529
10.330	-2.298	-.04178	.08019	-.13567	-.01265	-.00513	.00934	-.02100	-.13235	.08557	192.34136
10.330	-.209	-.04304	.07380	-.10381	-.01229	-.00615	.00923	-.02022	-.10354	.07418	192.42342
10.330	1.843	-.03900	.06850	-.07363	-.01007	-.00550	.00763	-.01671	-.07580	.06610	192.23582
10.330	3.764	-.03555	.06377	-.04096	-.00709	-.00500	.00628	-.01355	-.04505	.06094	192.30316
10.330	5.957	-.02939	.05914	-.00077	-.00330	-.00439	.00435	-.00950	-.00690	.05874	191.98672
10.330	7.988	-.02567	.05574	.04255	.00009	-.00382	.00285	-.00531	.03439	.06112	192.47628
10.330	10.057	-.02068	.05357	.08834	.00324	-.00331	.00161	-.00289	.07763	.06817	192.19844
10.330	15.106	-.01649	.05163	.23104	.01076	-.00345	-.00047	.00125	.20960	.11006	191.87326
10.330	20.247	-.01763	.05247	.39078	.02039	-.00392	-.00092	-.00071	.34848	.18446	192.22484
10.330	25.381	-.02650	.05275	.57340	.03050	-.00489	-.00067	-.00315	.49544	.29343	192.39004
10.330	30.537	-.02518	.05297	.78486	.03503	-.00465	-.00136	-.00418	.64909	.44440	192.15360
10.330	35.641	-.02966	.05214	1.00263	.03443	-.00496	-.00169	-.00559	.78444	.62661	192.03183
	GRADIENT	.00011	-.00316	.01567	.00023	.00009	-.00030	.00091	.01429	-.00505	-.04898

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(RJA034) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 34/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.163	-.04826	.10079	-.25690	.01183	-.00722	.01249	-.02266	-.23998	.13625	385.52500
10.330	-6.417	-.06242	.09067	-.22943	.00832	-.01203	.01802	-.04184	-.21788	.11575	385.41613
10.330	-4.317	-.06559	.07848	-.19010	-.00005	-.01176	.01730	-.03828	-.18365	.09256	384.80799
10.330	-2.048	-.05754	.06919	-.15095	-.00360	-.01099	.01421	-.03221	-.14838	.07454	384.38404
10.330	-.197	-.05054	.06328	-.12457	-.00285	-.00992	.01104	-.02327	-.12436	.06371	384.90734
10.330	1.851	-.03952	.05889	-.09637	-.00165	-.00352	.00719	-.01425	-.09822	.05574	384.87922
10.330	4.079	-.02964	.05498	-.06178	.00163	-.00728	.00381	-.00713	-.06554	.05045	384.48574
10.330	6.021	-.02147	.05083	-.02544	.00381	-.00500	.00140	-.00308	-.03063	.04788	384.28837
10.330	8.100	-.01677	.04729	.01731	.00714	-.00524	-.00001	-.00080	.01047	.04925	384.39672
10.330	9.896	-.01804	.04517	.05833	.00982	-.00542	-.00030	-.00016	.04970	.05452	384.29558
10.330	15.097	-.02902	.04332	.20924	.01733	-.00661	-.00029	.00175	.19074	.09633	383.89448
10.330	20.248	-.03500	.04355	.37195	.02627	-.00667	-.00005	.00034	.33389	.16958	383.86048
10.330	25.406	-.03978	.04308	.55668	.03590	-.00678	-.00002	-.00297	.48436	.27775	383.86806
10.330	30.415	-.04265	.04330	.76466	.03873	-.00698	-.00116	-.00266	.63751	.42445	383.30648
10.330	35.701	-.04861	.04202	.99189	.03870	-.00727	-.00132	-.00457	.78097	.61255	383.84746
	GRADIENT	.00435	-.00277	.01505	.00025	.00055	-.00164	.00387	.01385	-.00438	-.00949

01N79N78 LARC CFHT 118 (MA-22)

(RJA035) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 35/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/OA
10.330	-8.334	-.00307	.10023	-.16224	-.04753	.00038	-.00043	-.00300	-.14600	.12269	-.30788
10.330	-6.364	-.00240	.09347	-.13587	-.04155	.00019	-.00049	-.00287	-.12467	.10795	-.30787
10.330	-4.167	-.00187	.08704	-.10602	-.03758	.00023	-.00057	-.00293	-.09941	.09451	-.33812
10.330	-2.360	-.00181	.07895	-.07802	-.03667	.00015	-.00056	-.00287	-.07470	.08209	-.30751
10.330	-.194	-.00147	.07448	-.04593	-.03354	.00008	-.00046	-.00306	-.04567	.07463	-.36895
10.330	1.810	-.00047	.07138	-.01701	-.03047	.00005	-.00054	-.00296	-.01925	.07081	-.30768
10.330	3.806	-.00171	.06944	.01271	-.02852	.00001	-.00056	-.00276	.00807	.07013	-.30777
10.330	5.767	-.00200	.06683	.04535	-.02565	.00002	-.00054	-.00321	.03840	.07105	-.30751
10.330	7.967	-.00178	.06602	.09242	-.02495	-.00022	-.00063	-.00338	.08238	.07819	-.30780
10.330	10.015	-.00137	.06555	.14014	-.02520	-.00032	-.00076	-.00336	.12660	.08892	-.36923
10.330	15.104	.00075	.06646	.29662	-.03147	-.00058	-.00085	-.00461	.26906	.14145	-.27704
10.330	20.264	.00034	.07004	.48004	-.04018	-.00087	-.00101	-.00616	.42607	.23196	-.30785
10.330	25.209	-.00155	.07319	.68100	-.05139	-.00123	-.00098	-.00818	.58497	.35628	-.30770
10.330	30.331	-.00414	.07687	.91469	-.06933	-.00161	-.00085	-.01018	.75067	.52826	-.30764
10.330	35.537	-.00699	.08069	1.16432	-.09209	-.00206	-.00086	-.01251	.90056	.74240	-.30768
	GRADIENT	.00008	-.00212	.01483	.00121	-.00003	.00000	.00001	.01344	-.00297	.00291

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(RJA036) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 36/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.303	-.00241	.09474	-.17089	-.04190	-.00023	-.00052	-.00159	-.15542	.11843	95.25590
10.330	-6.488	-.00533	.08886	-.14593	-.03694	-.00083	.00001	-.00221	-.13496	.10478	95.40842
10.330	-4.335	-.00500	.08244	-.11652	-.03252	-.00123	-.00001	-.00160	-.10995	.09101	95.25995
10.330	-2.274	-.01346	.07445	-.08883	-.03218	-.00305	.00261	-.00981	-.08581	.07792	95.17532
10.330	-.303	-.01886	.06956	-.05988	-.03031	-.00347	.00329	-.00900	-.05951	.06988	95.34245
10.330	1.798	-.02617	.06575	-.03461	-.02749	-.00457	.00444	-.01017	-.03666	.06463	95.39803
10.330	3.814	-.03100	.06411	-.00563	-.02351	-.00533	.00480	-.01039	-.00788	.06359	95.38348
10.330	5.735	-.03043	.06275	.02796	-.02046	-.00533	.00443	-.01037	.02155	.06523	95.30085
10.330	7.919	-.02839	.06034	.06965	-.01671	-.00578	.00331	-.00733	.06067	.06936	95.16609
10.330	9.938	-.02948	.05893	.11664	-.01685	-.00582	.00251	-.00491	.10472	.07818	95.18844
10.330	15.018	-.01974	.06052	.27372	-.02309	-.00456	-.00017	-.00049	.24869	.12937	95.29465
10.330	20.121	-.02508	.06368	.45511	-.03034	-.00492	.00012	-.00264	.40542	.21636	95.16109
10.330	25.278	-.03814	.06747	.66571	-.04198	-.00598	.00108	-.00636	.57316	.34527	95.06855
10.330	30.511	-.03509	.07111	.90942	-.06042	-.00545	.00009	-.00699	.74739	.52298	95.02685
10.330	35.486	-.03637	.07493	1.15092	-.08308	-.00550	-.00070	-.00791	.89364	.72914	95.11743
	GRADIENT	-.00318	-.00223	.01355	.00112	-.00048	.00056	-.00088	.01224	-.00334	.02300

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 28

01N79N78 LARC CFHT 118 (MA-22)

(RJA037) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 37/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.404	-.00630	.07938	-.18335	-.03581	-.00298	.00091	-.00166	-.16832	.11522	190.14820
10.330	-6.415	-.01439	.08136	-.15860	-.02917	-.00438	.00294	-.00420	-.14851	.09858	190.03107
10.330	-4.336	-.02172	.07542	-.12677	-.02663	-.00540	.00439	-.00656	-.12070	.08479	190.14507
10.330	-2.327	-.03583	.06879	-.10455	-.02761	-.00850	.00838	-.01909	-.10167	.07298	190.03015
10.330	-.310	-.04097	.06499	-.08325	-.02505	-.00910	.00889	-.01985	-.08290	.06544	189.84239
10.330	1.781	-.04033	.06224	-.05699	-.02048	-.00900	.00766	-.01658	-.05890	.06043	189.89733
10.330	4.048	-.03942	.05854	-.02347	-.01571	-.00851	.00614	-.01222	-.02754	.05674	189.95117
10.330	5.992	-.03552	.05622	.01131	-.01195	-.00779	.00439	-.00864	.00538	.05709	189.75047
10.330	8.026	-.03097	.05412	.05291	-.01031	-.00736	.00257	-.00390	.04483	.06098	189.48859
10.330	9.971	-.02909	.05336	.10015	-.01027	-.00718	.00145	-.00156	.08940	.06990	189.54897
10.330	15.034	-.03295	.05551	.25774	-.01693	-.00725	.00046	.00037	.23452	.12046	189.62195
10.330	20.179	-.03991	.05852	.43918	-.02450	-.00748	.00041	-.00120	.39203	.20043	189.74113
10.330	25.281	-.04775	.06269	.85309	-.03589	-.00793	.00055	-.00363	.56377	.33559	189.62200
10.330	30.263	-.05167	.06623	.88694	-.05314	-.00794	.00014	-.00480	.73269	.50420	189.58981
10.330	35.505	-.05799	.07032	1.13860	-.07612	-.00822	-.00011	-.00663	.88606	.71851	189.71428
	GRADIENT	-.00188	-.00192	.01220	.00140	-.00031	.00012	-.00039	.01100	-.00327	-.02434

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 29

01N79N78 LARC CFHT 118 (MA-22)

(RJA03B) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 38/ 0 RN/L = 4.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.330	-.04146	.07461	-.20921	-.01864	-.01456	.01357	-.02123	-.19620	.10413	380.74232
10.330	-6.325	-.05848	.06765	-.18423	-.01207	-.01617	.01635	-.02351	-.17566	.08754	380.67058
10.330	-4.267	-.06089	.06264	-.16194	-.01139	-.01811	.01734	-.03635	-.15683	.07451	380.32732
10.330	-2.264	-.05787	.05789	-.13634	-.01147	-.01651	.01457	-.03076	-.13395	.06323	380.59957
10.330	-.292	-.05516	.05386	-.11099	-.00988	-.01507	.01142	-.02035	-.11071	.05443	380.12796
10.330	1.842	-.04343	.05093	-.08411	-.00834	-.01274	.00689	-.00919	-.08571	.04820	380.12795
10.330	3.805	-.03592	.04959	-.05352	-.00578	-.01095	.00412	-.00469	-.05669	.04593	379.75307
10.330	5.843	-.02875	.04757	-.01645	-.00366	-.00948	.00194	-.00128	-.02121	.04565	380.39820
10.330	7.928	-.02728	.04520	.02550	-.00133	-.00893	.00049	.00230	.01902	.04829	380.23110
10.330	10.129	-.03305	.04458	.07651	.00054	-.01008	.00044	.00143	.06748	.05734	379.90663
10.330	15.123	-.05259	.04753	.23309	-.00342	-.01189	.00126	.00085	.21262	.10669	379.42725
10.330	20.229	-.06966	.05133	.41897	-.01127	-.01263	.00164	.00001	.37538	.19303	380.06720
10.330	25.362	-.08252	.05428	.63743	-.02174	-.01277	.00212	-.00334	.55275	.32209	380.06558
10.330	30.448	-.09058	.05821	.86908	-.03975	-.01280	.00160	-.00444	.71973	.49060	379.72837
10.330	35.526	-.09933	.06175	1.11473	-.06228	-.01298	.00120	-.00618	.87133	.69800	379.26931
	GRADIENT	.00319	-.00163	.01329	.00071	.00089	-.00169	.00420	.01227	-.00356	-.07991

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 OF POOR QUALITY

01N78 LARC CFHT 118 (MA-22)

(RJA039) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 39/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.425	-.06589	.09043	-.17941	-.04434	-.00896	.01870	-.04375	-.16422	.11574	188.86603
10.330	-6.209	-.06345	.08522	-.14846	-.03674	-.00797	.01668	-.03683	-.13837	.10078	188.46894
10.330	-4.327	-.07971	.07845	-.12613	-.03859	-.01262	.02193	-.05557	-.11985	.08775	188.84055
10.330	-2.375	-.08589	.07452	-.10043	-.03884	-.01220	.02123	-.04917	-.09726	.07862	188.64641
10.330	-.253	-.08117	.07075	-.07235	-.03653	-.01092	.01850	-.04175	-.07203	.07107	188.61008
10.330	1.838	-.06530	.06769	-.04680	-.03328	-.00895	.01362	-.03080	-.04894	.06616	188.39764
10.330	4.040	-.05282	.06531	-.01039	-.02950	-.00708	.01004	-.02301	-.01497	.06442	188.49368
10.330	5.977	-.04067	.06249	.02506	-.02707	-.00492	.00663	-.01563	.01842	.06476	188.26888
10.330	7.891	-.02939	.06109	.06640	-.02660	-.00351	.00411	-.01064	.05739	.06962	188.45516
10.330	10.112	-.02496	.06002	.12088	-.02667	-.00317	.00324	-.00957	.10847	.08031	188.63502
10.330	15.060	-.02584	.06250	.28187	-.03426	-.00318	.00290	-.01047	.25595	.13359	188.31984
10.330	20.119	-.02775	.06704	.46811	-.04257	-.00328	.00373	-.01606	.41649	.22396	188.08030
10.330	25.243	-.03314	.07052	.68119	-.05399	-.00389	.00403	-.01887	.58607	.35429	188.33235
10.330	30.419	-.03582	.07434	.92572	-.07142	-.00405	.00391	-.02073	.76065	.53281	188.47349
10.330	35.445	-.03721	.07804	1.17019	-.09439	-.00439	.00354	-.02185	.90806	.74219	188.18163
	GRADIENT	.00359	-.00158	.01362	.00114	.00069	-.00150	.00399	.01233	-.00281	-.04460

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 31

O1N85 LARC CFHT 118 (MA-22)

(RJA040) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 40/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CQL	CYN	CY	CL	CD	T/QA
10.330	-8.442	-.00188	.09123	-.19609	-.03882	-.00430	-.00326	.02929	-.18057	.11903	379.47892
10.330	-6.471	.00533	.08227	-.17008	-.03573	-.00405	-.00475	.02664	-.15972	.10092	379.13445
10.330	-4.392	.01418	.07641	-.13883	-.03700	-.00334	-.00611	.02009	-.13257	.08681	379.93388
10.330	-2.331	.01227	.07116	-.11341	-.03395	-.00346	-.00598	.01946	-.11042	.07572	380.32417
10.330	-.199	.00859	.06658	-.08559	-.03136	-.00346	-.00532	.01687	-.08536	.06688	379.34580
10.330	1.766	.00776	.06396	-.06316	-.02807	-.00292	-.00533	.01605	-.06510	.06198	378.62118
10.330	3.710	.00750	.06257	-.03705	-.02598	-.00230	-.00544	.01510	-.04102	.06004	378.76714
10.330	5.869	.00864	.06121	.00132	-.02521	-.00142	-.00519	.01219	-.00494	.06102	377.77871
10.330	7.885	.00653	.05822	.04847	-.01919	-.00269	-.00539	.01337	.04002	.06432	378.55921
10.330	10.099	.00054	.05785	.10146	-.01855	-.00379	-.00481	.01278	.08975	.07475	380.26038
10.330	15.079	-.04398	.05794	.25149	-.01280	-.01157	-.00174	.00943	.22775	.12137	378.66148
10.330	20.140	-.06648	.06235	.43461	-.01897	-.01365	-.00127	.00898	.38657	.20818	379.01097
10.330	25.301	-.08435	.06688	.64948	-.03047	-.01452	-.00135	.00773	.55860	.33803	377.24766
10.330	30.345	-.09349	.07096	.88773	-.04956	-.01454	-.00245	.00803	.73026	.50972	377.24992
10.330	35.534	-.10501	.07569	1.14412	-.07461	-.01478	-.00283	.00613	.88706	.72654	377.40540
	GRADIENT	-.00089	-.00172	.01250	.00138	.00013	.00010	-.00066	.01125	-.00333	-.19923

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 32

OIN85 LARC CFHT 118 (MA-22)

(RJA041) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 41/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.436	-.00537	.10272	-.16780	-.04880	.00043	-.00040	-.00366	-.15091	.12622	-.39926
10.330	-6.491	-.00508	.09566	-.14108	-.04267	.00019	-.00048	-.00357	-.12937	.11099	-.39901
10.330	-4.348	-.00407	.08957	-.10949	-.03894	.00026	-.00057	-.00333	-.10238	.09762	-.39926
10.330	-2.356	-.00406	.08052	-.07731	-.03752	.00016	-.00052	-.00350	-.07393	.08363	-.36854
10.330	-.267	-.00430	.07615	-.04757	-.03475	.00011	-.00048	-.00329	-.04722	.07637	-.39933
10.330	1.818	-.00269	.07221	-.01806	-.03143	.00004	-.00058	-.00299	-.02034	.07160	-.39913
10.330	4.041	-.00326	.07054	.01763	-.02811	.00002	-.00054	-.00324	.01261	.07161	-.39918
10.330	5.938	-.00296	.06777	.04985	-.02536	.00006	-.00052	-.00368	.04257	.07256	-.39934
10.330	7.948	-.00395	.06656	.08976	-.02416	-.00022	-.00067	-.00341	.07970	.07834	-.42973
10.330	10.164	-.00155	.06266	.13557	-.02141	-.00003	-.00073	-.00415	.12239	.08561	-.36865
10.330	15.164	-.00171	.06725	.30071	-.02927	-.00056	-.00092	-.00477	.27265	.14357	-.39929
10.330	20.221	-.00125	.07098	.48412	-.03606	-.00083	-.00105	-.00656	.42975	.23394	-.36871
10.330	25.291	-.00321	.07434	.69775	-.04560	-.00124	-.00101	-.00876	.59911	.36530	-.43020
10.330	30.416	-.00430	.07708	.92673	-.06017	-.00155	-.00086	-.01088	.76016	.53565	-.39888
10.330	35.353	-.00638	.08055	1.16477	-.07858	-.00188	-.00088	-.01355	.90339	.73964	-.42984
	GRADIENT	.00014	-.00220	.01496	.00133	-.00003	-.00000	.00003	.01354	-.00303	-.00148

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 33

GIN85 LARC CFHT 118 (MA-22)

(RJA042) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 42/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.337	-.00165	.08366	-.19354	-.03724	-.00437	-.00328	.02905	-.17849	.11678	380.87903
10.330	-6.415	.00575	.08161	-.16664	-.03487	-.00417	-.00471	.02574	-.15648	.09972	380.73034
10.330	-4.192	.01348	.07519	-.13714	-.03580	-.00340	-.00610	.01989	-.13127	.08501	380.47879
10.330	-2.373	.01028	.07089	-.11320	-.03292	-.00365	-.00559	.01941	-.11017	.07552	380.24746
10.330	-.287	.00799	.06626	-.08702	-.03061	-.00352	-.00509	.01693	-.08668	.06670	380.46944
10.330	1.780	.00755	.06377	-.06107	-.02724	-.00291	-.00512	.01553	-.06302	.06185	379.83826
10.330	3.952	.00791	.06222	-.03239	-.02507	-.00228	-.00535	.01446	-.03660	.05984	380.02119
10.330	5.842	.00985	.06094	.00020	-.02419	-.00150	-.00522	.01225	-.00600	.06065	380.08076
10.330	7.878	.00698	.05830	.04772	-.01799	-.00273	-.00529	.01268	.03928	.06429	380.40702
10.330	10.078	.00013	.05765	.09862	-.01693	-.00382	-.00484	.01266	.08701	.07402	380.45275
10.330	15.255	-.04452	.05794	.25525	-.01050	-.01171	-.00176	.00927	.23101	.12306	380.09898
10.330	20.228	-.06631	.06237	.43374	-.01502	-.01374	-.00136	.00874	.38542	.20850	379.87865
10.330	25.307	-.08388	.06670	.64152	-.02337	-.01464	-.00144	.00779	.55144	.33453	379.37573
10.330	30.355	-.09314	.07080	.87708	-.03932	-.01460	-.00255	.00809	.72106	.50434	379.95270
10.330	35.461	-.10414	.07503	1.12531	-.05922	-.01478	-.00292	.00630	.87304	.71396	380.10189
	GRADIENT	-.00067	-.00161	.01280	.00133	.00015	.00009	-.00072	.01157	-.00311	-.06448

01N78 LARC CFHT 118 (MA-22)

(RJA043) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 SDFLAP = -14.250
 NO.JET = 1.000

RUN NO. 43/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/QA
10.330	-8.339	-.06354	.09004	-.17843	-.04403	-.00867	.01794	-.04226	-.16349	.11497	187.90020
10.330	-6.401	-.05782	.08619	-.15061	-.03732	-.00721	.01513	-.03612	-.14006	.10244	187.93645
10.330	-4.191	-.07844	.07833	-.12425	-.03844	-.01231	.02124	-.05405	-.11819	.08720	187.84295
10.330	-2.353	-.06439	.07422	-.10000	-.03835	-.01212	.02094	-.04849	-.09687	.07826	188.12004
10.330	-.324	-.08146	.07080	-.07418	-.03524	-.01106	.01857	-.04191	-.07378	.07122	187.76451
10.330	1.773	-.06437	.06821	-.04644	-.03342	-.00907	.01363	-.03127	-.04853	.06674	188.06743
10.330	3.959	-.05441	.06553	-.01258	-.02887	-.00733	.01021	-.02324	-.01708	.06450	187.84934
10.330	5.784	-.04138	.06305	.02179	-.02652	-.00526	.00693	-.01651	.01533	.06492	187.84101
10.330	7.925	-.03102	.06142	.06888	-.02556	-.00363	.00419	-.01105	.05975	.07033	187.76678
10.330	9.939	-.02630	.05995	.11437	-.02508	-.00317	.00326	-.00947	.10231	.07879	187.59579
10.330	15.053	-.02552	.06267	.28019	-.03174	-.00308	.00280	-.01059	.25429	.13329	187.64935
10.330	20.146	-.02729	.06746	.46411	-.03809	-.00322	.00358	-.01609	.41248	.22318	187.83502
10.330	25.400	-.03402	.07118	.68567	-.04725	-.00393	.00388	-.01873	.58886	.35841	187.55514
10.330	30.406	-.03334	.07481	.92054	-.06092	-.00388	.00380	-.02061	.75607	.53042	187.70646
10.330	35.517	-.03551	.07768	1.16395	-.08062	-.00417	.00345	-.02165	.90226	.73942	187.71478
	GRADIENT	.00339	-.00154	.01357	.00119	.00064	-.00145	.00387	.01228	-.00276	-.00253

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(RJA044) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 44/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.395	-.03760	.07538	-.21557	-.01687	-.01495	.01222	-.01825	-.20225	.10604	380.49927
10.330	-6.459	-.05007	.06893	-.19046	-.01003	-.01571	.01378	-.01812	-.19150	.08992	380.31097
10.330	-4.294	-.05882	.06376	-.16831	-.00825	-.01894	.01654	-.03533	-.16306	.07618	379.62608
10.330	-2.277	-.05461	.05909	-.14079	-.00928	-.01723	.01357	-.02975	-.13833	.06463	379.65062
10.330	-.204	-.05186	.05447	-.11522	-.00774	-.01557	.01020	-.01865	-.11503	.05488	379.75653
10.330	1.958	-.03935	.05217	-.08442	-.00611	-.01313	.00567	-.00864	-.08615	.04926	379.94641
10.330	3.862	-.03232	.05074	-.05383	-.00330	-.01143	.00303	-.00476	-.05712	.04700	379.64748
10.3	5.904	-.02452	.04831	-.01780	-.00065	-.00992	.00073	-.00071	-.02268	.04622	379.36326
10.33	7.911	-.02403	.04622	.02344	.00191	-.00934	-.00058	.00229	.01685	.04901	378.88957
10.330	10.135	-.03096	.04545	.07466	.00465	-.01075	-.00058	.00242	.06550	.05788	378.94465
10.330	15.126	-.05057	.04795	.23183	.00099	-.01232	.00020	.00216	.21129	.10679	379.38317
10.330	20.228	-.06783	.05194	.41494	-.00508	-.01306	.00047	.00133	.37139	.19220	378.90916
10.330	25.502	-.08145	.05573	.63908	-.01346	-.01312	.00099	-.00207	.55282	.32545	378.86549
10.330	30.462	-.09053	.05963	.87175	-.02872	-.01317	.00037	-.00219	.72119	.49334	378.90691
10.330	35.574	-.10020	.06283	1.11813	-.04824	-.01338	.00000	-.00404	.87290	.70158	379.00274
	GRADIENT	.00332	-.00161	.01388	.00063	.00093	-.00178	.00400	.01284	-.00359	.01710

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IF POOR QUALITY

01N79N78 LARC CFHT 118 (MA-22)

(RJA045) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 45/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.375	-.00502	.10289	-.16818	-.04849	.00043	-.00049	-.00347	-.15140	.12629	-.43256
10.330	-6.420	-.00556	.09553	-.14018	-.04278	.00022	-.00054	-.00327	-.12862	.11061	-.40191
10.330	-4.416	-.00391	.08986	-.11129	-.03921	.00025	-.00060	-.00331	-.10406	.09796	-.46371
10.330	-2.291	-.00444	.08061	-.07902	-.03719	.00017	-.00058	-.00331	-.07573	.08371	-.43271
10.330	-.232	-.00411	.07572	-.04891	-.03426	.00008	-.00053	-.00315	-.04860	.07592	-.46345
10.330	2.009	-.00360	.07227	-.01588	-.03149	.00004	-.00067	-.00270	-.01841	.07167	-.46366
10.330	3.855	-.00378	.07130	.01568	-.03013	-.00002	-.00059	-.00304	.01085	.07220	-.40170
10.330	5.875	-.00367	.06841	.05113	-.02830	-.00014	-.00062	-.00312	.04385	.07328	-.43285
10.330	7.886	-.00396	.06785	.09250	-.02804	-.00022	-.00067	-.00337	.08232	.07990	-.43306
10.330	9.904	-.00296	.06660	.13952	-.02916	-.00033	-.00080	-.00336	.12599	.08960	-.43237
10.330	15.145	-.00250	.06883	.31149	-.04082	-.00057	-.00089	-.00467	.28269	.14782	-.40183
10.330	20.233	-.00188	.07362	.50144	-.05456	-.00082	-.00103	-.00657	.44504	.24250	-.43280
10.330	25.279	-.00354	.07882	.72322	-.07315	-.00119	-.00098	-.00889	.62031	.38011	-.43284
10.330	30.321	-.00525	.08374	.96380	-.09683	-.00154	-.00087	-.01076	.78969	.55885	-.40211
10.330	35.449	-.00733	.08949	1.21767	-.12533	-.00191	-.00087	-.01330	.94005	.77912	-.43310
	GRADIENT	.00005	-.00217	.01520	.00115	-.00003	-.00000	.00006	.01377	-.00307	.00433

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 37

01N79N78 LARC CFHT 118 (MA-22)

(RJA046) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 390.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO.		46/ 0	RN/L =	.96	GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA	
10.330	-8.414	-.04174	.07519	-.21106	-.02098	-.01424	.01315	-.02057	-.19778	.10526	379.68609	
10.330	-6.482	-.05702	.06850	-.18556	-.01430	-.01549	.01545	-.02173	-.17664	.08901	379.66023	
10.330	-4.352	-.06431	.06337	-.16284	-.01281	-.01816	.01765	-.03690	-.15756	.07555	379.55485	
10.330	-2.279	-.06192	.05821	-.13553	-.01355	-.01664	.01501	-.03180	-.13311	.06355	379.45988	
10.330	-.211	-.05845	.05402	-.10809	-.01213	-.01527	.01189	-.02160	-.10789	.05442	379.06996	
10.330	1.959	-.04696	.05169	-.07865	-.01073	-.01286	.00731	-.01053	-.08037	.04898	378.97200	
10.330	3.851	-.03865	.04985	-.04929	-.00824	-.01112	.00462	-.00594	-.05253	.04643	379.08641	
10.330	5.901	-.03228	.04749	-.01136	-.00706	-.00949	.00230	-.00181	-.01618	.04607	379.28977	
10.330	7.895	-.02991	.04599	.03300	-.00627	-.00867	.00082	.00157	.02637	.05008	379.42410	
10.330	10.118	-.03613	.04535	.08464	-.00554	-.01013	.00083	.00100	.07535	.05951	379.34645	
10.330	15.055	-.05455	.04860	.24368	-.01384	-.01190	.00145	.00073	.22270	.11023	378.99570	
10.330	20.150	-.06898	.05324	.43347	-.02595	-.01268	.00159	.00002	.38860	.19930	379.19051	
10.330	25.233	-.08359	.05773	.65290	-.04232	-.01283	.00200	-.00289	.56599	.33056	378.83237	
10.330	30.318	-.09188	.06341	.89744	-.06593	-.01286	.00159	-.00426	.74270	.50776	379.17175	
10.330	35.437	-.10251	.06921	1.15038	-.09333	-.01309	.00133	-.00616	.89715	.72339	378.89119	
	GRADIENT	.00321	-.00163	.01375	.00058	.00086	-.00164	.00404	.01272	-.00354	-.06952	

01N78 LARC CFHT 118 (MA-22)

(RJA047) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 1.000

RUN NO. 47/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.536	-.06318	.09057	-.18150	-.04544	-.00850	.01779	-.04234	-.16605	.11650	188.14496
10.330	-6.388	-.05868	.08623	-.15010	-.03787	-.00730	.01531	-.03689	-.13957	.10240	188.34153
10.330	-4.169	-.07950	.07766	-.12486	-.03908	-.01239	.02132	-.05390	-.11888	.08653	188.04514
10.330	-2.300	-.08429	.07360	-.10004	-.03891	-.01216	.02091	-.04851	-.09700	.07755	188.14020
10.330	-.280	-.08084	.07001	-.07372	-.03667	-.01107	.01858	-.04213	-.07338	.07037	188.56044
10.330	1.810	-.08524	.06759	-.04685	-.03437	-.00906	.01352	-.03100	-.04896	.06607	187.92853
10.330	4.015	-.05390	.06541	-.01065	-.03065	-.00729	.01010	-.02312	-.01521	.06450	187.94176
10.330	5.867	-.04147	.06278	.02490	-.02892	-.00519	.00682	-.01628	.01835	.06500	187.93564
10.330	7.902	-.03106	.06114	.06952	-.02935	-.00376	.00432	-.01138	.06046	.07012	188.03939
10.330	9.910	-.02632	.06042	.11953	-.03052	-.00323	.00332	-.01000	.10735	.08009	188.18370
10.330	14.870	-.02558	.06354	.28410	-.04261	-.00311	.00281	-.01056	.25828	.13432	187.89131
10.330	20.122	-.02794	.06939	.48148	-.05640	-.00327	.00357	-.01614	.42822	.23079	187.85239
10.330	25.132	-.03393	.07453	.70080	-.07364	-.00385	.00390	-.01883	.60291	.36510	187.90265
10.330	30.369	-.03449	.08031	.95501	-.09749	-.00400	.00379	-.02071	.78337	.55211	187.96114
10.330	35.513	-.03656	.08536	1.20680	-.12609	-.00428	.00347	-.02195	.93256	.77074	187.85909
	GRADIENT	.00348	-.00148	.01377	.00105	.00065	-.00147	.00387	.01249	-.00269	-.02185

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 39

01N85 LARC CFHT 118 (MA-22)

(RJAC48) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 48/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.414	-.00519	.10220	-.16779	-.04982	.00044	-.00045	-.00360	-.15103	.12565	-.31048
10.330	-6.325	-.00431	.09502	-.13790	-.04221	.00022	-.00052	-.00355	-.12660	.10964	-.34159
10.330	-4.336	-.00377	.08915	-.11019	-.03855	.00026	-.00064	-.00333	-.10314	.09722	-.31014
10.330	-2.279	-.00370	.07987	-.07980	-.03672	.00016	-.00059	-.00349	-.07656	.08498	-.31024
10.330	-.296	-.00465	.07615	-.04961	-.03437	.00008	-.00050	-.00360	-.04922	.07641	-.31030
10.330	1.990	-.00353	.07190	-.01662	-.03135	.00005	-.00065	-.00300	-.01911	.07128	-.31014
10.330	3.866	-.00351	.07013	.01501	-.02983	-.00003	-.00061	-.00338	.01024	.07098	-.31060
10.330	5.911	-.00286	.06777	.05085	-.02832	-.00011	-.00063	-.00340	.04360	.07265	-.31049
10.330	8.034	-.00184	.06768	.09638	-.02832	-.00024	-.00069	-.00381	.08597	.08048	-.34154
10.330	9.957	-.00185	.06711	.14399	-.02954	-.00035	-.00083	-.00399	.13022	.09100	-.31016
10.330	14.970	-.00170	.06833	.30236	-.04008	-.00058	-.00093	-.00489	.27445	.14412	-.31028
10.330	20.102	-.00086	.07322	.49308	-.05385	-.00081	-.00112	-.00658	.43787	.23822	-.31042
10.330	25.106	-.00255	.07826	.70465	-.07154	-.00116	-.00105	-.00889	.60487	.36985	-.31018
10.330	30.288	-.00350	.08314	.95123	-.09565	-.00151	-.00094	-.01111	.77946	.55154	-.31053
10.330	35.256	-.00683	.08923	1.19730	-.12247	-.00190	-.00092	-.01354	.92619	.76398	-.34134
	GRADIENT	.00004	-.00223	.01516	.00111	-.00003	-.00000	.00002	.01374	-.00311	-.00004

OIN85 LARC CFHT 118 (MA-22)

(RJA049) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 49/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.432	-.00360	.09030	-.19472	-.03801	-.00448	-.00302	.02938	-.17938	.11788	386.23778
10.330	-6.339	.00455	.08152	-.16546	-.03543	-.00416	-.00470	.02618	-.15545	.09929	384.16295
10.330	-4.398	.01266	.07608	-.13877	-.03656	-.00351	-.00591	.02057	-.13253	.08650	384.19554
10.330	-2.377	.00831	.07141	-.11154	-.03381	-.00369	-.00542	.01981	-.10848	.07598	383.77484
10.330	-.232	.00791	.06661	-.03487	-.03142	-.00351	-.00503	.01713	-.08460	.06695	384.98359
10.330	1.773	.00600	.06385	-.06141	-.02849	-.00292	-.00508	.01633	-.06335	.06192	383.59355
10.330	3.862	.00661	.06309	-.03138	-.02732	-.00228	-.00531	.01493	-.03556	.06083	384.65340
10.330	5.953	.00871	.06186	.00528	-.02702	-.00152	-.00519	.01242	-.00116	.06208	384.11473
10.330	7.886	.00509	.05910	.05246	-.02181	-.00276	-.00529	.01334	.04385	.06574	384.51976
10.330	9.909	-.00079	.05876	.10097	-.02265	-.00369	-.00477	.01307	.08935	.07526	384.52802
10.330	15.183	-.04543	.05958	.26229	-.02168	-.01184	-.00160	.00950	.23753	.12619	384.56578
10.330	20.246	-.06718	.06527	.45025	-.03315	-.01396	-.00117	.00891	.39984	.21704	384.63345
10.330	25.324	-.08536	.07109	.66956	-.05051	-.01483	-.00130	.00781	.57481	.35065	383.91539
10.330	30.399	-.09354	.07728	.91228	-.07519	-.01471	-.00248	.00826	.74776	.52828	384.33238
10.330	35.474	-.10555	.08398	1.16554	-.10364	-.01489	-.00280	.00642	.90046	.74479	384.24222
	GRADIENT	-.00070	-.00162	.01282	.00115	.00016	.00007	-.00072	.01157	-.00316	.03696

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(RJA050) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 50/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/OA
10.330	-8.376	-.00586	.10318	-.17005	-.04894	.00042	-.00043	-.00358	-.15320	.12685	-.46385
10.330	-6.384	-.00432	.09590	-.14191	-.04271	.00020	-.00052	-.00351	-.13037	.11109	-.40192
10.330	-4.306	-.00410	.08998	-.11046	-.03861	.00026	-.00058	-.00321	-.10340	.09802	-.37103
10.330	-2.302	-.00471	.08088	-.07872	-.03788	.00014	-.00053	-.00338	-.07541	.08397	-.37113
10.330	-.238	-.00416	.07677	-.04907	-.03507	.00008	-.00049	-.00345	-.04875	.07698	-.40234
10.330	1.767	-.00389	.07299	-.01891	-.03185	.00006	-.00058	-.00303	-.02115	.07237	-.37147
10.330	3.859	-.00443	.07127	.01435	-.02847	.00003	-.00057	-.00312	.00952	.07208	-.40227
10.330	5.946	-.00421	.06812	.04824	-.02532	.00006	-.00056	-.00341	.04092	.07275	-.40193
10.330	7.923	-.00396	.06699	.08884	-.02405	-.00022	-.00069	-.00332	.07876	.07860	-.40182
10.330	10.153	-.00123	.06274	.13392	-.02139	.00004	-.00080	-.00392	.12076	.08536	-.40198
10.330	15.171	-.00245	.06720	.30162	-.02903	-.00053	-.00090	-.00456	.27353	.14379	-.40227
10.330	20.213	-.00159	.07126	.48745	-.03584	-.00078	-.00106	-.00658	.43281	.23529	-.40239
10.330	25.336	-.00193	.07477	.70163	-.04563	-.00111	-.00101	-.00892	.60214	.36782	-.40243
10.330	30.379	-.00355	.07755	.93503	-.06042	-.00148	-.00092	-.01093	.76743	.53977	-.43293
10.330	35.483	-.00722	.08052	1.18274	-.08000	-.00187	-.00090	-.01355	.91629	.75219	-.40221
	GRADIENT	.00001	-.00222	.01517	.00129	-.00003	-.00000	.00003	.01373	-.00311	-.00310

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OF POOR QUALITY

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 42

01N85 LARC CFHT 118 (MA-22)

(RJA051) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = .000 T/OA = 95.000
 ELEVON = 10.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 51/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/OA
10.330	-8.394	.00193	.10167	-.17123	-.04781	.00051	-.00273	.00240	-.15456	.12558	96.06990
10.330	-6.422	-.00406	.09189	-.15229	-.04090	-.00115	-.00232	.01236	-.14106	.10835	96.06804
10.330	-4.342	-.00294	.08517	-.11731	-.04086	-.00056	-.00234	.01076	-.111053	.09381	96.19214
10.330	-2.307	.00316	.07922	-.08786	-.03942	-.00010	-.00332	.00857	-.08460	.08269	95.98097
10.330	-.258	.00664	.07496	-.06078	-.03580	.00003	-.00378	.00689	-.06044	.07523	96.00535
10.330	1.805	.00450	.07123	-.02865	-.02833	-.00149	-.00353	.00711	-.03088	.07030	96.09024
10.330	3.774	.00559	.06881	.00320	-.02614	-.00083	-.00372	.00669	-.00124	.06888	96.15900
10.330	6.014	.00515	.06641	.04282	-.02342	-.00021	-.00349	.00511	.03562	.07053	96.12202
10.330	7.946	-.00185	.06421	.07830	-.01903	-.00244	-.00303	.00601	.06867	.07442	95.98463
10.330	9.924	-.00134	.06199	.12035	-.01910	-.00216	-.00284	.00573	.10787	.08180	95.99492
10.330	15.216	-.01339	.06407	.28780	-.02331	-.00383	-.00186	.00352	.26090	.13736	95.92668
10.330	20.285	-.02024	.06759	.47186	-.02854	-.00473	-.00152	.00066	.41916	.22699	95.93319
10.330	25.340	-.02692	.07156	.68493	-.03860	-.00524	-.00148	-.00130	.58840	.35782	95.98074
10.330	30.289	-.03380	.07516	.91718	-.05368	-.00577	-.00130	-.00340	.75407	.52749	95.81869
10.330	35.515	-.04323	.07853	1.16936	-.07344	-.00655	-.00142	-.00608	.90620	.74322	95.96778
	GRADIENT	.00091	-.00200	.01476	.00199	-.00010	-.00015	-.00047	.01338	-.00306	.00205

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MA22 - FORCE SOURCE DATA TABULATION

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01N78 LARC CFHT 118 (MA-22)

(RJA052) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = 10.000 BOFLAP = -14.250
 NOJET = 1.000

RUN NO. 52/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.389	-.01348	.10172	-.17460	-.04732	.00010	.00140	-.00808	-.15789	.12611	47.73398
10.330	-6.394	-.01441	.09453	-.14603	-.04123	-.00044	.00207	-.00903	-.13460	.11021	47.82912
10.330	-4.449	-.01404	.08902	-.11859	-.03744	-.00047	.00188	-.00822	-.11133	.09795	47.78577
10.330	-2.137	-.01964	.08073	-.08398	-.03489	-.00138	.00357	-.01215	-.08091	.08381	47.75980
10.330	-.199	-.02359	.07323	-.05356	-.03633	-.00211	.00419	-.01372	-.05331	.07342	47.73392
10.330	1.970	-.02889	.07073	-.02348	-.03330	-.00306	.00528	-.01452	-.02589	.06988	47.76155
10.330	3.688	-.03240	.06991	.00302	-.02991	-.00357	.00579	-.01530	-.00148	.06996	47.81109
10.330	5.936	-.03385	.06764	.04091	-.02576	-.00388	.00591	-.01581	.03369	.07151	47.86887
10.330	7.949	-.03116	.06569	.08192	-.02404	-.00360	.00478	-.01406	.07204	.07639	47.85906
10.330	9.985	-.02620	.06365	.12953	-.02349	-.00294	.00365	-.01242	.11654	.08515	47.89411
10.330	15.029	-.01069	.06694	.29630	-.03046	-.00137	.00053	-.00790	.26881	.14148	47.88307
10.330	20.041	-.01563	.07018	.47545	-.03626	-.00221	.00127	-.01159	.42261	.22886	47.92798
10.330	25.355	-.02367	.07447	.70421	-.04631	-.00312	.00219	-.01547	.60448	.36886	47.94379
10.330	30.386	-.02038	.07772	.93964	-.06176	-.00289	.00139	-.01587	.77125	.54235	47.98900
10.330	35.504	-.01760	.08087	1.18995	-.08115	-.00282	.00070	-.01683	.92175	.75690	47.95212
10.330	GRADIENT	-.00226	-.00239	.01490	.00081	-.00039	.00047	-.00082	.01347	-.00348	.00226

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 44

OIN79N78 LARC CFHT 118 (MA-22)

(RJA053) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 SDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 53/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.223	-.00221	.09864	-.17485	-.04282	-.00039	-.00111	-.00231	-.15895	.12263	96.47441
10.330	-6.512	-.00452	.09211	-.15022	-.03765	-.00092	-.00049	-.00295	-.13880	.10855	96.42929
10.330	-4.373	-.00483	.08531	-.12114	-.03278	-.00137	-.00040	-.00225	-.11428	.09430	96.34004
10.330	-2.337	-.01285	.07718	-.09233	-.03258	-.00301	.00196	-.00990	-.08910	.08088	96.40263
10.330	-.298	-.01898	.07167	-.06334	-.03147	-.00351	.00285	-.00965	-.06297	.07199	96.37051
10.330	2.036	-.02759	.06774	-.03320	-.02696	-.00495	.00427	-.01148	-.03559	.06652	96.35523
10.330	3.861	-.03024	.06551	-.00445	-.02306	-.00546	.00432	-.01120	-.00892	.06606	96.21921
10.330	5.918	-.03009	.06438	.02943	-.01852	-.00573	.00385	-.01050	.02263	.06707	96.25048
10.330	7.933	-.02907	.06202	.06884	-.01564	-.00585	.00296	-.00786	.05962	.07095	96.23403
10.330	9.933	-.03048	.06011	.11405	-.01481	-.00572	.00231	-.00639	.10197	.07888	96.33008
10.330	15.212	-.02079	.06242	.28631	-.02064	-.00461	-.00056	-.00144	.25989	.13536	96.29493
10.330	20.288	-.02552	.06594	.47210	-.02658	-.00494	-.00019	-.00395	.41995	.22555	96.28118
10.330	25.327	-.03631	.06996	.68437	-.03632	-.00581	.00052	-.00722	.58866	.35600	96.13533
10.330	30.235	-.03432	.07310	.91543	-.05074	-.00544	-.00033	-.00808	.75409	.52413	96.20223
10.330	35.528	-.03958	.07694	1.17313	-.07215	-.00563	-.00105	-.00908	.91002	.74432	96.05065
	GRADIENT	-.00315	-.00226	.01402	.00120	-.00049	.00057	-.00093	.01267	-.00340	-.01366

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 45

01N78 LARC CFHT 118 (MA-22)

(RJA054) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 54/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CO	T/OA
10.330	-8.364	-.00845	.12792	-.23644	-.00699	.00103	-.00058	-.00274	-.21532	.16095	-.21559
10.330	-6.490	-.00526	.11697	-.20360	-.00540	.00040	-.00093	-.00183	-.18908	.13923	-.18467
10.330	-4.143	-.00631	.10310	-.15325	-.01222	.00056	-.00062	-.00270	-.14540	.11390	-.21549
10.330	-2.336	-.00634	.09187	-.11687	-.01573	.00057	-.00060	-.00251	-.11303	.09656	-.21559
10.330	-.280	-.00501	.08495	-.08200	-.01538	.00043	-.00055	-.00259	-.08159	.08535	-.18462
10.330	1.809	-.00528	.07979	-.04828	-.01365	.00030	-.00062	-.00229	-.05078	.07823	-.19991
10.330	3.867	-.00428	.07428	-.01290	-.01090	.00020	-.00067	-.00236	-.01788	.07324	-.20020
10.330	5.976	-.00509	.06969	.02300	-.00731	.00010	-.00072	-.00252	.01562	.07170	-.19997
10.330	7.843	-.00327	.06711	.05945	-.00399	.00003	-.00078	-.00304	.04974	.07459	-.18502
10.330	10.117	-.00303	.06374	.10832	.00029	-.00010	-.00091	-.00349	.09544	.08178	-.18458
10.330	15.141	-.00181	.06375	.25572	.00707	-.00029	-.00114	-.00428	.23019	.12833	-.20021
10.330	20.230	.00023	.06441	.41789	.01570	-.00050	-.00141	-.00586	.36984	.20494	-.18461
10.330	25.477	-.00034	.06517	.61964	.02351	-.00082	-.00145	-.00834	.53136	.32537	-.20015
10.330	30.516	-.00210	.06448	.82585	.02636	-.00115	-.00140	-.01001	.67872	.47490	-.18465
10.330	35.618	-.00474	.06440	1.05126	.02468	-.00150	-.00142	-.01231	.81709	.66458	-.21540
10.330	GRADIENT	.00025	-.00344	.01730	.00025	-.00005	-.00001	.00004	.01572	-.00491	.00227

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 46

01N78 LARC CFHT 118 (MA-22)

(RJA055) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 55/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.300	-.05879	.11984	-.25280	.00047	-.00617	.01570	-.04019	-.23286	.15508	189.38202
10.330	-6.417	-.06898	.10855	-.22318	-.00101	-.01219	.02097	-.05847	-.20965	.13282	189.27838
10.330	-4.293	-.08463	.09653	-.18034	-.01112	-.01259	.02207	-.05265	-.17260	.10976	189.35241
10.330	-2.273	-.08388	.08779	-.14201	-.01577	-.01193	.02015	-.04608	-.13841	.09335	189.17651
10.330	-.237	-.07602	.08057	-.11159	-.01642	-.01044	.01683	-.03656	-.11126	.08103	189.13647
10.330	1.799	-.05947	.07576	-.08224	-.01444	-.00822	.01181	-.02590	-.08458	.07314	189.09171
10.330	3.965	-.04800	.07107	-.04485	-.01122	-.00640	.00849	-.01847	-.04966	.06780	189.11290
10.330	5.760	-.03847	.06637	-.00985	-.00910	-.00476	.00609	-.01392	-.01646	.06505	188.87571
10.330	7.959	-.02835	.06299	.03738	-.00577	-.00313	.00358	-.00970	.02829	.06756	189.30673
10.330	10.000	-.02613	.06065	.08141	-.00173	-.00297	.00288	-.00874	.06965	.07386	189.08407
10.330	15.001	-.02579	.05000	.23278	.00418	-.00296	.00264	-.00996	.20932	.11820	189.11530
10.330	20.230	-.02616	.06148	.40661	.01304	-.00295	.00335	-.01592	.36027	.19828	188.71300
10.330	25.376	-.03152	.06177	.59956	.02140	-.00357	.00355	-.01851	.51524	.31276	189.05494
10.330	30.415	-.03258	.06192	.81418	.02582	-.00372	.00326	-.01948	.67079	.46558	189.23442
10.330	35.601	-.03330	.06150	1.04069	.02342	-.00388	.00280	-.02048	.81038	.65583	189.07332
	GRADIENT	.00475	-.00305	.01607	.00006	.00078	-.00173	.00430	.01456	-.00504	-.02720

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 47

01N85 LARC CFHT 118 (MA-22)

(RJA056) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 56/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/QA
10.330	-8.420	-.01083	.11925	-.25982	-.00373	.00110	-.00350	.02811	-.23958	.15601	383.46920
10.330	-6.380	.00160	.10649	-.22010	-.01070	.00145	-.00516	.02093	-.20690	.13029	383.66047
10.330	-4.407	.00552	.09610	-.18318	-.01567	.00113	-.00554	.01821	-.17526	.10990	383.50454
10.330	-2.077	.00685	.08595	-.14360	-.01683	-.00009	-.00546	.01875	-.14039	.09110	383.17599
10.330	-.173	.00743	.07868	-.11353	-.01800	.00002	-.00514	.01579	-.11329	.07903	383.06033
10.330	1.944	.00927	.07301	-.08556	-.01553	.00047	-.00546	.01482	-.08799	.07008	382.38096
10.330	3.787	.01007	.06992	-.06045	-.01358	.00078	-.00539	.01349	-.06493	.06578	382.74389
10.330	5.856	.01052	.06674	-.02681	-.01178	.00126	-.00513	.01108	-.03348	.06366	379.95596
10.330	7.894	.00883	.06164	.02046	-.00500	.00055	-.00440	.00849	.01180	.06387	382.38776
10.330	10.142	.00528	.05880	.07266	.00056	-.00133	-.00485	.01211	.06117	.07068	382.18313
10.330	15.103	-.02890	.05780	.21520	.01609	-.00804	-.00277	.01039	.19271	.11188	380.91701
10.330	20.298	-.04199	.05914	.38498	.02593	-.00912	-.00282	.01031	.34056	.18902	380.56242
10.330	25.438	-.05117	.05943	.57801	.03446	-.00957	-.00321	.00937	.49644	.30194	380.42662
10.330	30.370	-.05597	.05932	.78907	.03658	-.00936	-.00397	.00922	.65080	.45012	381.28493
10.330	35.741	-.06275	.05743	1.02591	.03369	-.00920	-.00389	.00730	.79916	.64587	381.97656
	GRADIENT	.00056	-.00322	.01489	.00026	-.00001	.00001	-.00065	.01340	-.00539	-.11501

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 48

Q1N32 LARC CFHT 118 (MA-22)

(RJA057) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 57/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/QA
10.330	-8.435	-.00524	.10147	-.17299	-.04460	.00042	-.00053	-.00373	-.15624	.12575	-.60920
10.330	-6.474	-.00405	.09443	-.14515	-.03860	.00021	-.00056	-.00367	-.13358	.11020	-.55846
10.330	-4.338	-.00413	.08815	-.11353	-.03488	.00025	-.00066	-.00355	-.10654	.09648	-.50775
10.330	-2.322	-.00329	.07896	-.08223	-.03386	.00017	-.00068	-.00345	-.07896	.08223	-.55771
10.330	-.186	-.00343	.07410	-.05019	-.03053	.00007	-.00061	-.00362	-.04995	.07426	-.55835
10.330	2.001	-.00417	.07003	-.02202	-.02595	.00003	-.00074	-.00230	-.02445	.06922	-.55790
10.330	3.901	-.00326	.06757	.00814	-.02236	-.00008	-.00068	-.00325	.00353	.06797	-.50749
10.330	6.005	-.00369	.06479	.04039	-.01834	-.00015	-.00075	-.00311	.03339	.06866	-.50713
10.330	7.911	-.00275	.06364	.07839	-.01480	-.00026	-.00080	-.00346	.06889	.07382	-.50733
10.330	9.948	-.00112	.05910	.11271	-.00978	.00024	-.00075	-.00472	.10081	.07769	-.55791
10.330	15.124	-.00230	.06171	.27175	-.00923	-.00068	-.00105	-.00445	.24624	.13048	-.60818
10.330	20.200	-.00193	.06215	.44048	-.00875	-.00107	-.00107	-.00621	.39193	.21042	-.50753
10.330	25.299	-.00487	.06271	.63774	-.01252	-.00158	-.00102	-.00820	.54978	.32923	-.45673
10.330	30.454	-.00916	.06164	.86290	-.02275	-.00216	-.00086	-.01015	.71260	.49050	-.50701
10.330	35.532	-.01367	.06144	1.09598	-.03923	-.00266	-.00081	-.01233	.85619	.68694	-.55758
	GRADIENT	.00004	-.00241	.01459	.00158	-.00004	-.00000	.00009	.01320	-.00337	-.00005

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MA22 - FORCE SOURCE DATA TABULATION

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01N32 LARC CFHT 113 (MA-22)

(RJA058) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 58/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.428	-.02151	.09565	-.17466	-.04190	-.00116	.00436	-.01388	-.15876	.12021	97.27627
10.330	-6.473	-.02652	.08860	-.14918	-.03588	-.00232	.00596	-.01666	-.13821	.10505	97.13880
10.330	-4.328	-.02970	.08326	-.11723	-.03260	-.00291	.00647	-.01746	-.11061	.09187	97.25081
10.330	-2.345	-.03927	.07484	-.08925	-.03332	-.00496	.00937	-.02680	-.08511	.07843	96.93555
10.330	-.302	-.04752	.06859	-.06090	-.03219	-.00567	.01033	-.02567	-.06054	.06891	97.19228
10.330	1.787	-.05388	.06641	-.03792	-.02715	-.00677	.01138	-.02664	-.03997	.06519	97.21508
10.330	3.983	-.05624	.06502	-.00678	-.02222	-.00687	.01107	-.02581	-.01128	.06439	97.14789
10.330	5.853	-.04980	.06232	.02268	-.01856	-.00603	.00929	-.02238	.01620	.06431	97.05316
10.330	7.991	-.04004	.06010	.06589	-.01553	-.00498	.00667	-.01719	.05690	.06868	97.10504
10.330	9.989	-.03240	.05746	.10883	-.01221	-.00372	.00493	-.01460	.09722	.07547	97.04888
10.330	15.056	-.01726	.05904	.25887	-.01263	-.00215	.00184	-.00996	.23464	.12426	97.23486
10.330	20.382	-.02364	.05976	.43556	-.01049	-.00305	.00234	-.01293	.38748	.20772	97.03481
10.330	25.302	-.02980	.06010	.62693	-.01290	-.00382	.00293	-.01609	.54110	.32228	97.04101
10.330	30.493	-.02990	.05963	.85397	-.02273	-.00382	.00227	-.01637	.70555	.48479	97.00175
10.330	35.558	-.02972	.05945	1.08833	-.03811	-.00395	.00180	-.01771	.85082	.68125	97.08019
	GRADIENT	-.00325	-.00215	.01311	.00131	-.00047	.00053	-.00078	.01179	-.00326	.00371

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OF POOR QUALITY

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 50

OIN32 LARC CFHT 118 (MA-22)

(RJAO59) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 SDFLAP = .000
 NO.JET = 2.000

RUN NO. 59/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.427	-.06352	.08914	-.18313	-.04055	-.00852	.01767	-.04093	-.16809	.11501	192.07581
10.330	-6.482	-.05537	.08551	-.15538	-.03371	-.00685	.01461	-.03518	-.14474	.10250	191.91894
10.330	-4.316	-.06592	.07975	-.12367	-.03026	-.00879	.01687	-.03933	-.11732	.08883	191.91129
10.330	-2.351	-.08885	.07278	-.10063	-.03456	-.01262	.02216	-.05074	-.09756	.07682	191.60580
10.330	-.291	-.08785	.06968	-.07656	-.03146	-.01196	.02052	-.04571	-.07621	.07004	191.54089
10.330	1.802	-.07858	.06629	-.05073	-.02789	-.01030	.01690	-.03686	-.05279	.06466	191.69668
10.330	3.997	-.06475	.06412	-.01774	-.02315	-.00850	.01294	-.02923	-.02217	.06272	191.60542
10.330	5.795	-.05243	.06081	.01240	-.01903	-.00662	.00954	-.02248	.00620	.06175	191.41641
10.330	7.869	-.04095	.05874	.05641	-.01591	-.00493	.00665	-.01642	.04784	.06591	191.40626
10.330	10.080	-.03246	.05713	.10500	-.01334	-.00395	.00479	-.01345	.09338	.07463	191.35880
10.330	15.058	-.03208	.05727	.25032	-.01259	-.00384	.00417	-.01354	.22685	.12033	191.23906
10.330	20.180	-.03512	.05875	.42234	-.01138	-.00411	.00469	-.01777	.37615	.20084	190.96473
10.330	25.312	-.04230	.05898	.62186	-.01353	-.00480	.00517	-.02078	.53694	.31919	190.97097
10.330	30.505	-.04509	.05901	.85476	-.02213	-.00504	.00490	-.02230	.70649	.48473	191.15191
10.330	35.565	-.05029	.05845	1.08867	-.03889	-.00556	.00458	-.02315	.85160	.68074	190.95437
	GRADIENT	.00067	-.00181	.01261	.00102	.00015	-.00065	.00167	.01133	-.00308	-.02456

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MA22 - FORCE SOURCE DATA TABULATION

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01N32 LARC CFHT 118 (MA-22)

(RJA060) (12 JAN 76)

REFERENCE DATA

GREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 50/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.452	-.13403	.08404	-.20013	-.03371	-.02263	.04154	-.09022	-.18561	.11254	383.90715
10.330	-6.341	-.12641	.07768	-.17185	-.03281	-.02235	.03852	-.09387	-.16222	.09618	384.20893
10.330	-4.168	-.12640	.07220	-.13884	-.03649	-.01968	.03484	-.08027	-.13323	.08209	383.79624
10.330	-2.370	-.11731	.06895	-.11330	-.03647	-.01729	.02998	-.06781	-.11035	.07358	383.25068
10.330	-.299	-.10388	.06583	-.08769	-.03365	-.01484	.02437	-.05264	-.08735	.06628	382.75709
10.330	1.777	-.08493	.06361	-.06142	-.02885	-.01177	.01814	-.03820	-.06337	.06167	382.93379
10.330	3.863	-.06862	.06136	-.03355	-.02446	-.00860	.01319	-.02733	-.03761	.05896	382.92617
10.330	5.900	-.05873	.05856	-.00098	-.02105	-.00685	.01073	-.02241	-.00700	.05815	382.47384
10.330	7.863	-.06091	.05652	.03534	-.01817	-.00666	.01042	-.02164	.02728	.06082	381.99546
10.330	10.057	-.06204	.05491	.08582	-.01492	-.00697	.01027	-.02173	.07491	.06905	382.20287
10.330	15.019	-.06735	.05445	.23465	-.01280	-.00755	.00981	-.02139	.21252	.11339	382.82709
10.330	20.341	-.06818	.05655	.42065	-.01372	-.00709	.00996	-.02702	.37476	.19924	382.42092
10.330	25.389	-.07300	.05621	.61886	-.01399	-.00710	.01099	-.03529	.53499	.31612	382.42350
10.330	30.462	-.08365	.05583	.84367	-.02353	-.00819	.01086	-.03401	.69891	.47583	382.14447
10.330	35.543	-.08912	.05598	1.08766	-.03985	-.00864	.01059	-.03534	.85246	.67783	382.18008
	GRADIENT	.00734	-.00133	.01298	.00158	.00137	-.00273	.00670	.01178	-.00286	-.09992

OIN36 LARC CFHT 110 (MA-22)

(RJA061) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 80FLAP = .000
 NO.JET = 2.000

RUN NO. 61/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEB	CYN	CY	CL	CO	T/QA
10.330	-8.291	-.01396	.09825	-.17410	-.04277	-.00048	.00209	-.00963	-.15811	.12233	96.20484
10.330	-6.521	-.01754	.09190	-.14971	-.03797	-.00129	.00317	-.01148	-.13831	.10831	96.17405
10.330	-4.365	-.01916	.08606	-.11689	-.03488	-.00159	.00331	-.01150	-.11000	.09471	96.14808
10.330	-2.272	-.02563	.07798	-.08707	-.03255	-.00256	.00489	-.01473	-.08391	.08137	96.08246
10.330	-.230	-.03133	.06993	-.05658	-.03227	-.00359	.00630	-.01803	-.05630	.07016	96.12208
10.330	1.935	-.04288	.06619	-.02911	-.02836	-.00512	.00828	-.02055	-.03133	.06517	96.17263
10.330	3.842	-.05033	.06571	-.00148	-.02343	-.00624	.00959	-.02290	-.00588	.06546	96.14120
10.330	5.874	-.05344	.06374	.02905	-.01771	-.00664	.00971	-.02341	.02238	.06638	96.03513
10.330	7.908	-.04762	.06113	.06566	-.01483	-.00587	.00787	-.02020	.05662	.06958	96.13013
10.330	10.145	-.03122	.05774	.10944	-.01023	-.00347	.00489	-.01546	.09756	.07611	96.14124
10.330	15.161	-.01436	.06033	.26634	-.01175	-.00192	.00120	-.00925	.24129	.12789	96.20637
10.330	20.205	-.02104	.06097	.43648	-.00995	-.00292	.00175	-.01241	.38856	.20797	96.03796
10.330	25.378	-.02714	.06207	.64070	-.01199	-.00371	.00227	-.01542	.55227	.33068	96.16891
10.330	30.396	-.02526	.06107	.86417	-.02257	-.00359	.00132	-.01533	.71449	.48993	96.13798
10.330	35.474	-.02561	.06094	1.10285	-.03807	-.00378	.00096	-.01674	.86278	.68965	96.16138
	GRADIENT	-.00386	-.00255	.01400	.00131	-.00058	.00077	-.00139	.01265	-.00364	.00376

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MA22 - FORCE SOURCE DATA TABULATION

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01N36 LARC CFHT 119 (MA-22)

(RJA062) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NOJET = 2.000

RUN NO. 62/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.446	-.03669	.09548	-.17973	-.04312	-.00382	.00882	-.02207	-.16378	.12084	192.08703
10.330	-6.480	-.04895	.08885	-.15267	-.03655	-.00600	.01200	-.02813	-.14166	.10551	192.41162
10.330	-4.348	-.05557	.08357	-.12055	-.03313	-.00741	.01358	-.03118	-.11387	.09247	191.90374
10.330	-2.344	-.07009	.07517	-.09289	-.03345	-.00996	.01700	-.04132	-.08974	.07891	192.18754
10.330	-.253	-.08018	.06941	-.06297	-.03181	-.01120	.01845	-.04104	-.06267	.06969	192.33190
10.330	1.823	-.08314	.06691	-.03977	-.02623	-.01128	.01773	-.03848	-.04188	.06561	191.99023
10.330	4.001	-.07669	.06552	-.00913	-.02178	-.00985	.01525	-.03357	-.01368	.06472	191.91299
10.330	5.787	-.06690	.06355	.01959	-.01778	-.00816	.01253	-.02842	.01308	.06520	191.90579
10.330	7.960	-.04926	.06083	.06293	-.01524	-.00604	.00800	-.01944	.05390	.06895	192.08258
10.330	9.946	-.03682	.05929	.10774	-.01334	-.00443	.00539	-.01492	.09588	.07701	191.73818
10.330	15.108	-.02751	.05918	.25995	-.01243	-.00316	.00332	-.01248	.23555	.12488	192.09537
10.330	20.160	-.02911	.06071	.43085	-.01083	-.00359	.00332	-.01520	.38353	.20547	192.15538
10.330	25.246	-.03378	.06113	.63353	-.01264	-.00421	.00356	-.01767	.54694	.32550	191.87331
10.330	30.511	-.03731	.06085	.86835	-.02228	-.00451	.00343	-.01936	.71722	.49329	191.96925
10.330	35.609	-.04168	.06056	1.10890	-.03823	-.00496	.00320	-.02104	.86629	.69489	192.20837
	GRADIENT	-.00262	-.00212	.01322	.00144	-.00029	.00019	-.00007	.01190	-.00328	-.00914

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MA22 - FORCE SOURCE DATA TABULATION

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01N36 LARC CFHT 118 (MA-22)

(RJA083) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 63/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.456	-.05223	.09416	-.17905	-.04292	-.00658	.01390	-.03254	-.16328	.11947	258.70981
10.330	-6.498	-.06615	.08824	-.15367	-.03562	-.00925	.01784	-.047	-.14270	.10508	258.14494
10.330	-4.332	-.07984	.08271	-.12149	-.03216	-.01146	.02047	-.04508	-.11490	.09165	258.30841
10.330	-2.322	-.09740	.07496	-.09574	-.03348	-.01453	.02429	-.05518	-.09262	.07877	258.39443
10.330	-.237	-.09995	.06964	-.06966	-.03139	-.01447	.02333	-.05076	-.06937	.06993	258.03956
10.330	1.980	-.09171	.06717	-.04435	-.02618	-.01239	.01968	-.04264	-.04654	.06560	257.90303
10.330	3.881	-.08184	.06635	-.01494	-.02204	-.01056	.01644	-.03602	-.01939	.06519	257.87875
10.330	5.847	-.06500	.06366	.02050	-.01803	-.00796	.01216	-.02805	.01390	.06542	257.96381
10.330	7.872	-.04576	.06079	.05919	-.01552	-.00550	.00736	-.01820	.05031	.06832	257.57829
10.330	10.068	-.03640	.05899	.10937	-.01334	-.00423	.00525	-.01481	.09738	.07720	257.60204
10.330	15.098	-.03521	.05927	.25897	-.01248	-.00401	.00463	-.01494	.23459	.12468	257.86605
10.330	20.182	-.03819	.06042	.43028	-.01093	-.00438	.00473	-.01791	.38301	.20516	257.98367
10.330	25.166	-.04371	.06079	.62712	-.01324	-.00495	.00505	-.02070	.54174	.32170	257.78651
10.330	30.404	-.04756	.06111	.86386	-.02179	-.00538	.00500	-.02264	.71413	.48990	257.46538
10.330	35.634	-.05104	.06068	1.10978	-.03807	-.00576	.00465	-.02411	.86663	.69589	257.56168
	GRADIENT	.00009	-.00195	.01275	.00133	.00019	-.00061	.00149	.01142	-.00319	-.06551

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MA22 - FORCE SOURCE DATA TABULATION

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01N48 LARC CFHT 118 (MA-22)

(RJA064) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 64/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.313	-.01779	.09864	-.17566	-.04274	-.00070	.00302	-.01176	-.15955	.12300	96.33065
10.330	-6.365	-.02296	.09182	-.14896	-.03738	-.00165	.00435	-.01410	-.13786	.10776	96.29087
10.330	-4.193	-.02401	.08575	-.11704	-.03381	-.00212	.00467	-.01459	-.11046	.09408	96.15320
10.330	-2.288	-.03030	.07886	-.08925	-.03194	-.00305	.00616	-.01765	-.08603	.08236	96.09336
10.330	-.252	-.03478	.07047	-.05690	-.03284	-.00406	.00729	-.02071	-.05659	.07072	96.28127
10.330	1.849	-.04660	.06722	-.03051	-.02845	-.00570	.00925	-.02291	-.03266	.06620	96.28542
10.330	3.811	-.05252	.06616	-.00397	-.02339	-.00657	.01012	-.02417	-.00836	.06575	96.24718
10.330	5.917	-.05475	.06428	.02804	-.01926	-.00662	.00989	-.02384	.02127	.06683	96.15269
10.330	7.902	-.04596	.06226	.06608	-.01551	-.00561	.00763	-.02009	.05689	.07075	96.26371
10.330	10.086	-.03255	.05850	.11040	-.01069	-.00348	.00494	-.01555	.09845	.07693	96.27618
10.330	15.119	-.01566	.06078	.26622	-.01202	-.00206	.00146	-.00996	.24117	.12807	96.06114
10.330	20.163	-.02356	.06145	.43774	-.01008	-.00312	.00211	-.01333	.38973	.20857	96.28717
10.330	25.368	-.03114	.06207	.64251	-.01244	-.00402	.00283	-.01657	.55397	.33135	96.27807
10.330	30.362	-.02653	.06143	.86791	-.02255	-.00369	.00257	-.01594	.71782	.49170	96.16158
10.330	35.476	-.02720	.06121	1.11122	-.03838	-.00385	.00111	-.01738	.86940	.69477	96.04313
	GRADIENT	-.00364	-.00252	.01414	.00121	-.00057	.00069	-.00121	.01278	-.00361	.01898

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OF POOR QUALITY

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 56

Q1N48 LARC CFHT 118 (MA-22)

(RJA085) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 65/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/QA
10.330	-8.266	-.03885	.09416	-.17683	-.04179	-.00410	.00970	-.02453	-.16145	.11860	192.14193
10.330	-6.514	-.04862	.08829	-.15339	-.03606	-.00593	.01246	-.02976	-.14239	.10512	192.31680
10.330	-4.357	-.05870	.08229	-.12257	-.03215	-.00759	.01448	-.03354	-.11596	.09137	192.03220
10.330	-2.326	-.07830	.07454	-.09395	-.03394	-.01113	.01932	-.04605	-.09084	.07830	191.87945
10.330	-.238	-.08634	.06902	-.06950	-.03197	-.01201	.01996	-.04403	-.06921	.06931	192.05053
10.330	1.914	-.08275	.06718	-.04407	-.02680	-.01092	.01768	-.03872	-.04629	.06567	192.17656
10.330	3.845	-.07538	.06555	-.01485	-.02270	-.00959	.01505	-.03325	-.01922	.06441	191.97454
10.330	5.866	-.06145	.06261	.02054	-.01843	-.00749	.01148	-.02629	.01403	.06438	191.99770
10.330	7.929	-.04642	.06014	.06078	-.01551	-.00564	.00763	-.01885	.05191	.06795	191.67898
10.330	10.118	-.03209	.05730	.11014	-.01250	-.00379	.00476	-.01424	.09836	.07576	191.80875
10.330	15.100	-.02743	.05872	.26079	-.01251	-.00328	.00355	-.01324	.23649	.12463	191.75486
10.330	20.209	-.03224	.05977	.43258	-.01108	-.00381	.00381	-.01645	.38530	.20552	191.75147
10.330	25.310	-.03829	.06043	.63519	-.01353	-.00453	.00417	-.01937	.54838	.32618	191.72859
10.330	30.307	-.04060	.05984	.86109	-.02177	-.00476	.00387	-.02034	.71321	.48620	191.89574
10.330	35.577	-.04373	.05984	1.11166	-.03832	-.00513	.00357	-.02214	.86934	.69543	191.70761
	GRADIENT	-.00184	-.00198	.01284	.00126	-.00018	-.00002	.00038	.01152	-.00323	.00925

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 57

01N48 LARC CFHT 119 (MA-22)

(RJA066) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 66/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.373	-.07633	.08863	-.18559	-.04049	-.01086	.02161	-.04905	-.17071	.11471	257.83163
10.330	-6.446	-.08566	.08413	-.15736	-.03373	-.01244	.02358	-.05333	-.14692	.10127	257.95108
10.330	-4.461	-.09536	.07717	-.13324	-.03468	-.01572	.02644	-.06518	-.12684	.08730	257.78038
10.330	-2.361	-.10463	.07192	-.10492	-.03498	-.01546	.02628	-.05878	-.10187	.07619	257.82621
10.330	-.336	-.09921	.06837	-.07935	-.03232	-.01392	.02327	-.05122	-.07894	.06884	257.30606
10.330	1.775	-.09025	.06620	-.05284	-.02780	-.01192	.01930	-.04186	-.05487	.06454	257.72805
10.330	3.739	-.07654	.06459	-.02201	-.02349	-.00998	.01542	-.03383	-.02617	.06301	257.80423
10.330	5.830	-.05847	.06112	.01414	-.01914	-.00717	.01056	-.02474	.00785	.06224	257.53954
10.330	7.878	-.04325	.05876	.05450	-.01612	-.00510	.00688	-.01726	.04593	.06567	257.19695
10.330	10.054	-.03575	.05684	.10350	-.01332	-.00435	.00526	-.01450	.09199	.07404	257.17330
10.330	15.032	-.03777	.05720	.25425	-.01283	-.00434	.00500	-.01561	.23072	.12119	257.47181
10.330	20.169	-.04087	.05836	.42579	-.01155	-.00461	.00542	-.01961	.37956	.20159	257.38258
10.330	25.301	-.04670	.05888	.63048	-.01391	-.00529	.00581	-.02273	.54483	.32268	257.23320
10.330	30.347	-.05224	.05822	.85797	-.02175	-.00570	.00550	-.02353	.71100	.48372	257.10865
10.330	35.441	-.05576	.05801	1.03904	-.03918	-.00613	.00519	-.02508	.86176	.68455	257.44369
	GRADIENT	.00252	-.00151	.01336	.00144	.00073	-.00141	.00388	.01209	-.00294	-.00244

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MA22 - FORCE SOURCE DATA TABULATION

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01N44 LARC CFHT 118 (MA-22)

(RJA067) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NOJET = 2.000

RUN NO. 67/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.284	-.01775	.09846	-.17585	-.04325	-.00082	.00300	-.01134	-.15983	.12277	95.90538
10.330	-6.329	-.02377	.09156	-.14706	-.03756	-.00188	.00455	-.01406	-.13607	.10721	95.95889
10.330	-4.366	-.02551	.08627	-.11785	-.03463	-.00246	.00521	-.01526	-.11094	.09499	96.09126
10.330	-2.313	-.03200	.07856	-.08711	-.03251	-.00347	.00674	-.01860	-.08386	.08201	95.94863
10.330	-.231	-.03693	.07007	-.05598	-.03273	-.00439	.00772	-.02103	-.05559	.07029	95.96347
10.330	1.981	-.04976	.06758	-.02815	-.02822	-.00615	.00992	-.02388	-.03047	.06657	95.93029
10.330	3.862	-.05598	.06623	-.00227	-.02302	-.00694	.01066	-.02502	-.00673	.06592	95.88318
10.330	5.899	-.05765	.06429	.02925	-.01779	-.00692	.01034	-.02466	.02249	.06696	95.90212
10.330	7.978	-.04784	.06199	.06743	-.01520	-.00583	.00794	-.02057	.05818	.07074	95.81876
10.330	9.970	-.03472	.05832	.10702	-.01063	-.00381	.00543	-.01629	.09530	.07597	95.91013
10.330	15.113	-.01739	.06058	.26768	-.01166	-.00211	.00153	-.00989	.24262	.12828	95.85513
10.330	20.263	-.02131	.06140	.44105	-.00990	-.00301	.00191	-.01297	.39249	.21035	95.81450
10.330	25.410	-.02907	.06208	.65140	-.01237	-.00384	.00252	-.01616	.56175	.33559	95.86404
10.330	30.463	-.02534	.06170	.87980	-.02316	-.00354	.00147	-.01580	.72707	.49923	95.86636
10.330	35.633	-.02784	.06116	1.12357	-.03927	-.00387	.00121	-.01753	.87756	.70430	95.90771
	GRADIENT	-.00375	-.00247	.01398	.00132	-.00056	.00068	-.00120	.01262	-.00356	-.02088

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 59

01N44 LARC CFHT 11B (MA-22)

(RJA088) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 68/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.392	-.04124	.09479	-.17874	-.04305	-.00454	.01034	-.02573	-.16300	.11988	192.48898
10.330	-6.471	-.05291	.08836	-.15264	-.03639	-.00666	.01345	-.03176	-.14171	.10500	192.32650
10.330	-4.317	-.06267	.08291	-.12090	-.03257	-.00829	.01551	-.03590	-.11431	.09178	192.35027
10.330	-2.109	-.08173	.07419	-.09229	-.03358	-.01177	.02010	-.04751	-.08950	.07753	192.44044
10.330	-.267	-.08955	.06933	-.06727	-.03199	-.01264	.02081	-.04588	-.06695	.06964	192.19741
10.330	1.794	-.08571	.06732	-.04430	-.02682	-.01155	.01860	-.04076	-.04639	.06590	192.11683
10.330	3.800	-.07965	.06601	-.01361	-.02287	-.01014	.01593	-.03529	-.01796	.06496	192.02394
10.330	5.892	-.06531	.06313	.02073	-.01843	-.00801	.01235	-.02838	.01414	.06493	192.12581
10.330	7.898	-.04886	.06089	.06226	-.01605	-.00589	.00810	-.02029	.05330	.06887	192.01806
10.330	10.071	-.03305	.05763	.10927	-.01250	-.00386	.00498	-.01470	.09751	.07585	191.92141
10.330	15.086	-.02967	.05894	.26130	-.01255	-.00341	.00375	-.01370	.23695	.12491	191.98097
10.330	20.240	-.03272	.05989	.43420	-.01118	-.00389	.00388	-.01674	.38667	.20641	192.15287
10.330	25.153	-.03822	.06070	.63337	-.01332	-.00454	.00412	-.01906	.54751	.32415	192.21634
10.330	30.347	-.04106	.06047	.86630	-.02197	-.00485	.00397	-.02043	.71705	.48987	192.09474
10.330	35.646	-.04516	.05986	1.11841	-.03959	-.00531	.00364	-.02171	.87397	.70042	192.27912
	GRADIENT	-.00191	-.00203	.01304	.00129	-.00018	-.00002	.00037	.01171	-.00325	-.04794

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MA22 - FORCE SOURCE DATA TABULATION

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01N44 LARC CFHT 118 (MA-22)

(RJA059) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 69/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.247	-.07826	.08978	-.18233	-.04067	-.01177	.02268	-.05091	-.16757	.11500	258.43874
10.330	-6.508	-.09046	.08531	-.15781	-.03439	-.01367	.02513	-.05594	-.14712	.10265	258.30768
10.330	-4.335	-.08752	.08020	-.12563	-.03046	-.01234	.02256	-.05029	-.11921	.08947	257.81100
10.330	-2.177	-.10853	.07220	-.10062	-.03450	-.01606	.02696	-.05998	-.09781	.07597	257.39479
10.330	-.212	-.10214	.06892	-.07440	-.03219	-.01448	.02398	-.05289	-.07415	.06920	257.77632
10.330	1.991	-.09243	.06695	-.04598	-.02736	-.01242	.02005	-.04373	-.04828	.06531	257.87624
10.330	3.760	-.08231	.06530	-.01912	-.02336	-.01064	.01661	-.03647	-.02336	.06390	257.80511
10.330	5.909	-.06152	.06189	.01858	-.01908	-.00757	.01142	-.02687	.01211	.06348	257.74667
10.330	7.921	-.04529	.05930	.05760	-.01611	-.00528	.00739	-.01869	.04887	.06668	257.87032
10.330	10.103	-.03663	.05758	.10727	-.01377	-.00446	.00564	-.01646	.09551	.07550	257.77376
10.330	15.073	-.03899	.05799	.25690	-.01276	-.00441	.00528	-.01623	.23299	.12280	257.39462
10.330	20.209	-.04267	.05889	.42922	-.01150	-.00482	.00556	-.02011	.38245	.20353	257.42469
10.330	25.287	-.04846	.05978	.63427	-.01382	-.00547	.00592	-.02306	.54795	.32498	257.79410
10.330	30.371	-.05337	.05930	.86235	-.02223	-.00586	.00571	-.02402	.71402	.48717	257.62923
10.330	35.506	-.05748	.05892	1.10731	-.03942	-.00625	.00548	-.02564	.86719	.69108	257.44836
	GRADIENT	.00125	-.00173	.01313	.00103	.00034	-.00091	.00213	.01183	-.00306	.02278

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MA22 - FORCE SOURCE DATA TABULATION

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01N78 LARC CFHT 11B (MA-22)

(RJA070) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 70/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.311	-.01341	.10039	-.17615	-.04207	.00000	.00148	-.00854	-.15979	.12479	47.48788
10.330	-6.368	-.01475	.09394	-.14810	-.03665	-.00051	.00213	-.00985	-.13677	.10978	47.54866
10.330	-4.170	-.01409	.08744	-.11544	-.03289	-.00049	.00194	-.00950	-.10877	.09561	47.50457
10.330	-2.348	-.01934	.07855	-.08977	-.03360	-.00174	.00371	-.01616	-.08648	.08216	47.54623
10.330	-.251	-.02245	.07208	-.05774	-.03222	-.00203	.00405	-.01428	-.05742	.07233	47.47327
10.330	1.748	-.02872	.06945	-.03004	-.02859	-.00301	.00510	-.01485	-.03214	.06850	47.56050
10.330	3.963	-.03319	.06755	.00075	-.02373	-.00360	.00567	-.01611	-.00392	.06744	47.51306
10.330	5.837	-.03514	.06564	.03099	-.01909	-.00383	.00574	-.01594	.02415	.06845	47.56042
10.330	7.884	-.03169	.06321	.06898	-.01535	-.00363	.00474	-.01471	.05966	.07207	47.51306
10.330	10.052	-.02288	.05875	.11121	-.01029	-.00239	.00321	-.01224	.09925	.07726	47.44064
10.330	15.092	-.01213	.06132	.27047	-.01114	-.00157	.00046	-.00788	.24518	.12963	47.51155
10.330	20.285	-.01768	.06199	.44510	-.00971	-.00261	.00111	-.01168	.39601	.21245	47.53021
10.330	25.435	-.02579	.06266	.65354	-.01277	-.00362	.00193	-.01517	.56328	.33727	47.54196
10.330	30.503	-.02374	.06184	.87727	-.02288	-.00336	.00093	-.01454	.72447	.49857	47.50903
10.330	35.576	-.02231	.06164	1.12020	-.03863	-.00342	.00019	-.01529	.87525	.70185	47.48546
	GRADIENT	-.00233	-.00238	.01434	.00116	-.00037	.00043	-.00057	.01297	-.00340	.00138

ORIGINAL PAGE IS
OF POOR QUALITY

01N78 LARC CFHT 118 (MA-22)

(RJA071) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 71/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/OA
10.330	-8.385	-.02294	.09791	-.17912	-.04216	-.00103	.00430	-.01441	-.16292	.12298	94.96932
10.330	-6.441	-.02853	.09126	-.15216	-.03598	-.00225	.00608	-.01758	-.14096	.10775	94.95534
10.330	-4.408	-.03083	.08595	-.12159	-.03257	-.00283	.00656	-.01860	-.11462	.09504	94.71945
10.330	-2.332	-.04353	.07641	-.09319	-.03448	-.00538	.01013	-.02910	-.09000	.08014	94.83999
10.330	-.238	-.05051	.07095	-.06625	-.03277	-.00614	.01087	-.02683	-.06595	.07122	94.83150
10.330	1.770	-.05432	.06898	-.04069	-.02737	-.00675	.01109	-.02659	-.04280	.06769	94.92779
10.330	4.035	-.05087	.06664	-.00828	-.02295	-.00622	.00955	-.02311	-.01295	.06589	94.73823
10.330	5.901	-.04147	.06386	.02230	-.01884	-.00504	.00699	-.01875	.01562	.06581	94.74733
10.330	7.935	-.03659	.06132	.06296	-.01548	-.00445	.00545	-.01516	.05389	.06943	94.79648
10.330	10.126	-.02456	.05853	.11168	-.01145	-.00301	.00350	-.01225	.09965	.07726	94.82149
10.330	15.116	-.01443	.06013	.26617	-.01189	-.00180	.00102	-.00895	.24128	.12746	94.70315
10.330	20.281	-.01792	.06087	.44047	-.01027	-.00250	.00133	-.01214	.39207	.20978	94.74967
10.330	25.394	-.02610	.06165	.64762	-.01254	-.00350	.00203	-.01535	.55861	.33341	94.67306
10.330	30.526	-.02581	.06152	.87828	-.02262	-.00351	.00150	-.01589	.72530	.49910	94.78488
10.330	35.601	-.02596	.06052	1.11825	-.03878	-.00368	.00098	-.01683	.87401	.70018	94.79953
	GRADIENT	-.00240	-.00219	.01330	.00126	-.00039	.00033	-.00030	.01194	-.00336	.00555

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 63

01N78 LARC CFHT 118 (MA-22)

(RJAO72) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 72/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.362	-.06550	.09108	-.18585	-.03995	-.00868	.01819	-.04332	-.17063	.11714	189.82013
10.330	-6.416	-.05788	.08678	-.15731	-.03356	-.00706	.01516	-.03677	-.14662	.10381	189.80630
10.330	-4.452	-.07682	.07941	-.13353	-.03497	-.01235	.02139	-.05568	-.12697	.08953	189.96154
10.330	-2.342	-.08622	.07436	-.10588	-.03496	-.01222	.02117	-.04941	-.10275	.07863	189.72565
10.330	-.246	-.08143	.06978	-.07986	-.03234	-.01106	.01858	-.04224	-.07956	.07012	189.61950
10.330	2.001	-.06282	.06719	-.05145	-.02784	-.00899	.01314	-.03051	-.05377	.06535	189.58206
10.330	3.884	-.05498	.06515	-.02163	-.02328	-.00753	.01025	-.02396	-.02599	.06354	189.70367
10.330	5.782	-.04231	.06173	.01131	-.01955	-.00541	.00694	-.01686	.00504	.06256	189.44889
10.330	7.917	-.02992	.05941	.05549	-.01659	-.00367	.00399	-.01098	.04678	.06648	189.33991
10.330	9.947	-.02612	.05770	.10027	-.01384	-.00334	.00319	-.01028	.08880	.07415	189.66253
10.330	15.106	-.02613	.05804	.25783	-.01256	-.00324	.00270	-.01117	.23380	.12323	189.40478
10.330	20.336	-.03031	.05946	.43664	-.01113	-.00357	.00340	-.01651	.38876	.20749	189.32259
10.330	25.322	-.03455	.05981	.63654	-.01374	-.00426	.00375	-.01904	.54980	.32631	189.67970
10.330	30.509	-.03827	.05967	.87086	-.02269	-.00455	.00363	-.02045	.72000	.49352	189.30315
10.330	35.417	-.04225	.05901	1.10229	-.03915	-.00502	.00329	-.02132	.86412	.68689	189.04093
	GRADIENT	.00319	-.00170	.01323	.00145	.00061	-.00144	.00392	.01193	-.00311	-.03180

01N85 LARC CFHT 118 (MA-22)

(RJA073) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 73/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.356	.00316	.10075	-.18058	-.04195	.00033	-.00296	.00292	-.16402	.12592	95.96836
10.330	-6.403	-.00480	.09148	-.15686	-.03657	-.00128	-.00212	.01213	-.14568	.10840	95.98977
10.330	-4.196	-.00158	.08342	-.12117	-.03763	-.00051	-.00262	.01093	-.11474	.09206	95.94626
10.330	-2.339	.00314	.07858	-.09472	-.03646	-.00003	-.00348	.00802	-.09143	.08238	96.06656
10.330	-.236	.00675	.07365	-.06737	-.03162	.00002	-.00405	.00709	-.06707	.07393	95.80992
10.330	1.966	.00452	.07038	-.03223	-.02487	-.00107	-.00383	.00691	-.03463	.06923	95.74783
10.330	3.716	.00566	.06752	-.00442	-.02142	-.00062	-.00403	.00671	-.00878	.06709	95.77586
10.330	5.851	.00593	.06452	.02860	-.01678	-.00032	-.00379	.00529	.02187	.06710	95.87596
10.330	8.055	-.00006	.06143	.06624	-.01077	-.00227	-.00343	.00596	.05697	.07010	95.83422
10.330	10.050	-.00130	.05765	.10298	-.00689	-.00160	-.00291	.00437	.09134	.07474	95.90066
10.330	15.036	-.01231	.05922	.25456	-.00470	-.00382	-.00234	.00330	.23048	.12323	95.75519
10.330	20.110	-.02305	.05970	.42220	-.00111	-.00533	-.00208	.00121	.37594	.20122	95.68609
10.330	25.381	-.03077	.06076	.63707	-.00491	-.00612	-.00183	-.00239	.54953	.32797	95.78203
10.330	30.430	-.04201	.06066	.85980	-.01481	-.00684	-.00187	-.00226	.71063	.48778	95.81274
10.330	35.574	-.05228	.05998	1.10334	-.03076	-.00783	-.00202	-.00466	.86253	.69065	95.63459
	GRADIENT	.00078	-.00199	.01470	.00219	-.00007	-.00016	-.00047	.01335	-.00314	-.03343

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(RJA074) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 74/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.440	-.00207	.09111	-.20509	-.03257	-.00477	-.00381	.02976	-.18950	.12023	384.04658
10.330	-6.462	.00987	.08316	-.17656	-.03146	-.00451	-.00555	.02412	-.16608	.10250	384.10453
10.330	-4.481	.01488	.07737	-.14940	-.03249	-.00367	-.00673	.02066	-.14290	.08881	383.40197
10.330	-2.327	.01032	.07206	-.11948	-.02980	-.00377	-.00616	.02013	-.11645	.07685	383.35915
10.330	-.267	.00915	.06710	-.09429	-.02728	-.00352	-.00571	.01719	-.09398	.06754	383.67136
10.330	1.812	.00827	.06419	-.06930	-.02304	-.00284	-.00588	.01590	-.07129	.06197	383.07942
10.330	3.781	.00820	.06242	-.04555	-.02013	-.00214	-.00589	.01485	-.04956	.05928	382.61509
10.330	5.843	.00878	.06103	-.00973	-.01787	-.00126	-.00555	.01223	-.01590	.05972	382.23479
10.330	7.926	.00541	.05745	.03452	-.00996	-.00248	-.00557	.01231	.02627	.06166	382.81347
10.330	9.924	.00071	.05610	.07789	-.00684	-.00343	-.00547	.01360	.06705	.06869	382.40170
10.330	14.985	-.03658	.05470	.22550	.00585	-.01049	-.00256	.00996	.20369	.11115	382.52660
10.330	20.356	-.06235	.05673	.40329	.00971	-.01321	-.00225	.00955	.35837	.19348	382.06533
10.330	25.418	-.08143	.05810	.60714	.00862	-.01479	-.00259	.00909	.52343	.31308	382.54087
10.330	30.500	-.09274	.05844	.83661	-.00182	-.01515	-.00380	.00957	.69119	.47496	382.71033
10.330	35.448	-.10877	.05821	1.07027	-.01809	-.01560	-.00406	.00825	.83812	.66814	382.30428
	GRADIENT	-.00075	-.00183	.01249	.00152	.00019	.00010	-.00077	.01122	-.00359	-.08883

ORIGINAL PAGE IS
OF POOR QUALITY

OINBS LARC CFHT 118 (MA-22)

(RJA075) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 SOFLAP = .000
 NO.JET = 2.000

RUN NO. 75/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.386	-.00529	.09818	-.18978	-.04010	-.00145	-.00316	.02060	-.17343	.12481	190.90165
10.330	-6.391	-.00548	.08927	-.15952	-.03688	-.00170	-.00287	.01857	-.14859	.10647	190.66408
10.330	-4.200	.00338	.08078	-.12693	-.03778	-.00098	-.00438	.01470	-.12067	.08986	190.69953
10.330	-2.325	.00761	.07577	-.10415	-.03660	-.00065	-.00483	.01089	-.10099	.07994	190.09131
10.330	-.253	.00803	.07180	-.07884	-.03150	-.00050	-.00489	.01014	-.07852	.07215	190.34764
10.330	1.832	.00728	.06806	-.05102	-.02567	-.00072	-.00482	.01006	-.05317	.06639	190.52595
10.330	3.801	.01070	.06559	-.01873	-.01959	-.00082	-.00579	.01188	-.02304	.06420	190.14198
10.330	5.678	.00928	.06274	.01346	-.01842	-.00018	-.00523	.00926	.00719	.06377	190.17825
10.330	7.937	.00704	.06006	.05388	-.01061	-.00173	-.00563	.01220	.04507	.06692	190.34952
10.330	9.950	.00120	.05790	.09659	-.00960	-.00217	-.00483	.01095	.08513	.07372	190.38207
10.330	14.925	-.02014	.05777	.24241	-.00094	-.00581	-.00269	.00641	.21935	.11826	190.15684
10.330	20.359	-.03575	.05889	.42360	.00247	-.00777	-.00222	.00500	.37665	.20259	190.07384
10.330	25.400	-.04778	.05985	.62614	-.00048	-.00886	-.00234	.00457	.53994	.32264	190.20421
10.330	30.467	-.06468	.06027	.85206	-.00941	-.01046	-.00231	.00157	.70385	.48399	190.03882
10.330	35.579	-.07638	.05964	1.09441	-.02617	-.01109	-.00260	.00008	.85541	.68525	190.14640
	GRADIENT	.00070	-.00189	.01337	.00235	.00001	-.00014	-.00032	.01206	-.00321	-.03251

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 67

OIN33 LARC CFHT 118 (MA-22)

(RJA078) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 76/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.381	-.00638	.10175	-.17474	-.04440	.00042	-.00046	-.00345	-.15804	.12613	-.48760
10.330	-6.416	-.00500	.09516	-.14600	-.03861	.00019	-.00049	-.00364	-.13445	.11087	-.48751
10.330	-4.365	-.00402	.08941	-.11441	-.03524	.00025	-.00058	-.00339	-.10727	.09786	-.43350
10.330	-2.316	-.00452	.07997	-.08254	-.03481	.00019	-.00055	-.00356	-.07924	.08324	-.48757
10.330	-.287	-.00419	.07466	-.05377	-.03167	.00009	-.00049	-.00338	-.05340	.07493	-.43370
10.330	1.816	-.00334	.07167	-.02422	-.02702	.00005	-.00058	-.00292	-.02648	.07027	-.48776
10.330	3.817	-.00401	.06861	.00602	-.02321	-.00004	-.00058	-.00285	.00144	.06885	-.43356
10.330	5.831	-.00343	.06593	.03839	-.01931	-.00008	-.00058	-.00284	.03151	.06940	-.48813
10.330	7.893	-.00365	.06400	.07824	-.01524	-.00022	-.00069	-.00292	.06871	.07414	-.48744
10.330	10.080	-.00129	.05875	.11701	-.01007	.00039	-.00061	-.00421	.10492	.07833	-.43334
10.330	15.134	-.00270	.06153	.26971	-.00979	-.00063	-.00096	-.00422	.24429	.12981	-.43393
10.330	20.231	-.00377	.06305	.44876	-.00860	-.00098	-.00104	-.00565	.39927	.21434	-.48814
10.330	25.310	-.00546	.06392	.65561	-.01214	-.00150	-.00097	-.00786	.56535	.33808	-.48783
10.330	30.432	-.00768	.06346	.88022	-.02229	-.00197	-.00083	-.01004	.72680	.50057	-.48846
10.330	35.655	-.01175	.06388	1.13149	-.03907	-.00246	-.00092	-.01240	.88215	.71145	-.43401
	GRADIENT	.00006	-.00243	.01460	.00155	-.00004	-.00000	.00008	.01318	-.00343	-.00006

01N33 LARC CFHT 118 (MA-22)

(RJAD77) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 77/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.266	-.00017	.10161	-.17681	-.04409	.00047	-.00181	-.00012	-.16037	.12599	96.25955
10.330	-6.450	-.00270	.09322	-.15790	-.03715	-.00109	-.00234	.01020	-.14643	.11036	96.26683
10.330	-4.384	-.00341	.08643	-.12410	-.03680	-.00058	-.00198	.00941	-.11712	.09566	96.04925
10.330	-2.286	.00074	.08002	-.09254	-.03440	-.00023	-.00256	.00700	-.08927	.08365	96.10573
10.330	-.304	.00072	.07587	-.05851	-.03099	-.00009	-.00220	.00300	-.05811	.07617	96.13885
10.330	1.801	.00471	.07263	-.03181	-.02505	-.00093	-.00345	.00640	-.03408	.07160	96.04330
10.330	4.043	.00323	.06862	.00469	-.02078	-.00056	-.00280	.00465	-.00016	.06878	96.10231
10.330	5.803	.00254	.06628	.03463	-.01723	-.00034	-.00253	.00296	.02776	.06944	96.00948
10.330	8.028	-.00041	.06421	.07772	-.01174	-.00157	-.00249	.00362	.06799	.07443	96.11453
10.330	10.089	-.00310	.06157	.11905	-.00907	-.00204	-.00287	.00609	.10643	.08148	96.09601
10.330	15.121	-.00734	.05938	.25998	-.00473	-.00282	-.00247	.00405	.23549	.12514	96.01342
10.330	20.196	-.01645	.06072	.44307	-.00182	-.00419	-.00192	.00143	.39486	.20995	96.11314
10.330	25.404	-.02328	.06179	.65419	-.00605	-.00491	-.00176	-.00129	.56443	.33646	96.05206
10.330	30.421	-.03286	.06206	.88407	-.01675	-.00571	-.00155	-.00349	.73094	.50116	95.88064
10.330	35.495	-.04296	.06136	1.12739	-.03304	-.00672	-.00185	-.00539	.88226	.70456	95.92299
	GRADIENT	.00082	-.00205	.01520	.00198	-.00003	-.00012	-.00054	.01381	-.00313	.00217

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 89

01N33 LARC CFMT 118 (MA-22)

(RJA078) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 78/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.407	.00246	.10073	-.19294	-.04062	-.00138	-.00369	.01722	-.17614	.12786	192.40544
10.330	-6.407	-.00294	.09238	-.16139	-.03753	-.00144	-.00257	.01523	-.15008	.10982	192.20304
10.330	-4.350	.00161	.08415	-.12562	-.03861	-.00072	-.00347	.01330	-.11887	.09343	192.15070
10.330	-2.280	.00758	.07886	-.09585	-.03707	-.00013	-.00419	.00986	-.09264	.08261	192.10866
10.330	-.247	.00999	.07441	-.06756	-.03192	-.00017	-.00472	.00938	-.06724	.07470	192.41750
10.330	1.850	.01243	.07023	-.03778	-.02607	-.00018	-.00532	.01025	-.04003	.06897	192.53525
10.330	3.847	.01035	.06736	-.00544	-.02045	-.00045	-.00492	.00949	-.00995	.06684	192.43398
10.330	5.853	.01027	.06475	.02787	-.01572	-.00049	-.00472	.00841	.02112	.05726	192.40125
10.330	8.079	.00800	.06194	.07081	-.01194	-.00124	-.00491	.00982	.06140	.07128	192.13991
10.330	9.836	.00237	.05815	.10159	-.00775	-.00131	-.00375	.00804	.09017	.07465	191.92270
10.330	15.108	-.01064	.05826	.25298	-.00403	-.00372	-.00296	.00651	.22905	.12218	192.22641
10.330	20.255	-.02630	.05963	.43224	.00122	-.00621	-.00222	.00442	.38486	.20558	191.62071
10.330	25.395	-.03617	.06048	.64092	-.00226	-.00710	-.00239	.00327	.55305	.32950	191.74257
10.330	30.391	-.04916	.06093	.87125	-.01171	-.00845	-.00245	.00135	.72071	.49332	191.80012
10.330	35.499	-.06290	.06020	1.11928	-.02896	-.00963	-.00246	-.00123	.87628	.69897	191.92393
	GRADIENT	.00109	-.00206	.01454	.00230	.00002	-.00020	-.00035	.01317	-.00326	.04847

01N33 LARC CFHT 11B (MA-22)

(RJA079) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 930.8000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 79/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.353	-.00216	.09698	-.19739	-.03962	-.00236	-.00358	.02564	-.18121	.12463	383.68430
10.330	-6.369	.00310	.08796	-.16684	-.03859	-.00219	-.00450	.02359	-.15605	.10593	383.31034
10.330	-4.172	.01332	.08052	-.13457	-.03874	-.00129	-.00613	.01720	-.12835	.09009	382.95913
10.330	-2.391	.01641	.07514	-.11395	-.03628	-.00120	-.00644	.01493	-.11071	.07983	382.24747
10.330	-.228	.01447	.07066	-.08480	-.03162	-.00134	-.00611	.01411	-.08452	.07100	382.23009
10.330	1.966	.01614	.06744	-.05780	-.02599	-.00131	-.00630	.01374	-.06008	.06542	382.99711
10.330	3.790	.01595	.06503	-.03164	-.02214	-.00090	-.00634	.01386	-.03577	.06285	383.16846
10.330	5.925	.01573	.06166	.00649	-.01727	-.00033	-.00614	.01273	.00010	.06200	382.61599
10.330	7.937	.01537	.05931	.05124	-.01094	-.00145	-.00710	.01646	.04260	.06552	381.92423
10.330	10.075	.01009	.05735	.09899	-.00837	-.00192	-.00629	.01509	.08743	.07378	383.13512
10.330	15.062	-.02113	.05563	.23513	.00302	-.00765	-.00336	.00989	.21259	.11482	382.02036
10.330	20.434	-.04207	.05747	.42950	.00540	-.00949	-.00246	.00869	.38241	.20380	381.86859
10.330	25.370	-.06230	.05985	.62825	.00439	-.01173	-.00271	.00830	.54241	.32241	382.48325
10.330	30.378	-.07373	.05882	.85795	-.00492	-.01312	-.00326	.00694	.71041	.48462	382.36211
10.330	35.637	-.09207	.05863	1.11413	-.02327	-.01362	-.00352	.00521	.87132	.69679	381.67752
	GRADIENT	.00024	-.00192	.01303	.00217	.00003	-.00001	-.00039	.01173	-.00343	.06049

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MA22 - FORCE SOURCE DATA TABULATION

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01N37 LARC CFHT 118 (MA-22)

(RJAO80) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 SDFLAP = .000
 NO.JET = 2.000

RUN NO. 80/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.447	-.00364	.10419	-.17895	-.04550	.00047	-.00095	-.00293	-.16171	.12935	96.37284
10.330	-6.436	-.00264	.09663	-.14913	-.03937	.00023	-.00111	-.00226	-.13736	.11274	96.35409
10.330	-4.314	.00126	.08856	-.11641	-.03612	.00008	-.00180	-.00023	-.10941	.09706	96.23815
10.330	-2.321	-.00232	.08226	-.08415	-.03448	.00016	-.00111	-.00228	-.08075	.08560	96.30904
10.330	-.282	-.00356	.07720	-.05453	-.03152	.00008	-.00097	-.00234	-.05415	.07747	96.19628
10.330	1.827	-.00132	.07314	-.02643	-.02618	-.00024	-.00159	.00007	-.02875	.07226	96.24983
10.330	3.816	-.00186	.06783	.00090	-.02047	.00016	-.00102	-.00146	-.00361	.06774	96.20325
10.330	5.783	-.00197	.06725	.03702	-.01815	-.00039	-.00140	-.00012	.03005	.07063	96.29447
10.330	8.087	-.00328	.06526	.08233	-.01331	-.00064	-.00147	-.00031	.07233	.07620	96.21490
10.330	10.047	-.00288	.06183	.12365	-.00783	-.00071	-.00138	-.00122	.11097	.08245	96.21537
10.330	15.098	-.00872	.06110	.26385	-.00473	-.00273	-.00172	.00101	.23882	.12771	96.30280
10.330	20.228	-.01499	.06180	.44691	-.00326	-.00351	-.00135	-.00127	.39798	.21251	96.12519
10.330	25.374	-.01996	.06236	.65777	-.00731	-.00392	-.00139	-.00345	.56759	.33822	96.07031
10.330	30.438	-.02622	.06196	.89185	-.01855	-.00460	-.00128	-.00548	.73754	.50525	96.20646
10.330	35.458	-.03395	.06165	1.13535	-.03498	-.00542	-.00136	-.00792	.86902	.70885	96.28275
	GRADIENT	-.00025	-.00248	.01432	.00194	-.00001	.00005	-.00000	.01291	-.00352	-.00632

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OF POOR QUALITY

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 72

01N37 LARC CFHT 118 (MA-22)

(RJA081) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 81/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/QA
10.330	-8.282	-.00107	.10220	-.17679	-.04455	.00048	-.00169	-.00072	-.16022	.12661	192.80514
10.330	-6.487	-.00201	.09359	-.15969	-.03719	-.00116	-.00263	.01081	-.14809	.11103	192.74940
10.330	-4.355	-.00415	.08668	-.12422	-.03663	-.00056	-.00220	.00957	-.11728	.09587	192.40935
10.330	-2.345	-.00034	.08152	-.09006	-.03438	-.00026	-.00247	.00609	-.08665	.08513	192.50807
10.330	-.304	.00004	.07658	-.05832	-.03095	-.00016	-.00232	.00317	-.05791	.07688	192.40467
10.330	1.777	.00407	.07298	-.03122	-.02495	-.00101	-.00358	.00656	-.03347	.07198	192.01119
10.330	4.034	.00422	.06907	.00542	-.02081	-.00063	-.00323	.00501	.00055	.06928	192.47441
10.330	5.764	.00399	.06654	.03416	-.01726	-.00031	-.00322	.00452	.02731	.06964	192.44515
10.330	8.007	-.00066	.06354	.07583	-.01209	-.00177	-.00293	.00509	.06624	.07348	192.47163
10.330	10.079	-.00121	.05928	.11333	-.00685	-.00139	-.00263	.00446	.10121	.07820	192.50605
10.330	15.258	-.01023	.05961	.26573	-.00462	-.00325	-.00230	.00400	.24067	.12744	192.35775
10.330	20.412	-.02221	.06047	.44883	-.00064	-.00504	-.00188	.00155	.39956	.21322	192.43967
10.330	25.332	-.03110	.06138	.65047	-.00461	-.00610	-.00168	-.00028	.56166	.33379	192.35721
10.330	30.362	-.03917	.06137	.88158	-.01534	-.00661	-.00167	-.00228	.72965	.49855	192.20823
10.330	35.669	-.05114	.06079	1.13683	-.03266	-.00767	-.00197	-.00430	.86511	.71228	192.17677
	GRADIENT	.00101	-.00209	.01522	.00197	-.00004	-.00015	-.00041	.01382	-.00316	-.01675

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 73

01N37 LARC CFHT 118 (MA-22)

(RJA082) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 82' 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.248	-.00052	.10103	-.17782	-.04424	.00054	-.00222	.00093	-.16149	.12549	259.10544
10.330	-6.447	-.00191	.09324	-.16158	-.03705	-.00132	-.00282	.01357	-.15009	.11079	258.55215
10.330	-4.313	-.00088	.08565	-.12405	-.03803	-.00057	-.00281	.01148	-.111726	.09474	259.16870
10.330	-2.300	.00209	.08004	-.09251	-.03569	-.00018	-.00337	.00879	-.08923	.08369	259.06587
10.330	-.285	.00354	.07549	-.06195	-.03249	-.00007	-.00347	.00628	-.06157	.07579	258.91808
10.330	1.830	.00563	.07192	-.03180	-.02528	-.00101	-.00387	.00742	-.03408	.07087	258.78349
10.330	3.829	.00478	.06800	-.00272	-.02049	-.00065	-.00396	.00729	-.00725	.06766	258.63886
10.330	5.793	.00721	.06559	.02971	-.01604	-.00033	-.00416	.00707	.02294	.06925	258.55531
10.330	8.039	.00163	.06262	.07473	-.01325	-.00157	-.00357	.00713	.06523	.07246	258.66353
10.330	9.894	-.00121	.05819	.10423	-.00775	-.00147	-.00299	.00614	.09268	.07523	258.08692
10.330	15.113	-.01227	.05854	.25535	-.00437	-.00363	-.00254	.00538	.23126	.12309	258.38366
10.330	20.218	-.02755	.05960	.43409	.00097	-.00613	-.00214	.00379	.38674	.20595	258.25650
10.330	25.372	-.03809	.06109	.64563	-.00292	-.00707	-.00197	.00179	.55718	.33185	258.55355
10.330	30.450	-.04717	.06059	.87666	-.01331	-.00770	-.00204	.00004	.72504	.49650	258.27888
10.330	35.523	-.06092	.06025	1.11961	-.02950	-.00902	-.00229	-.00205	.87623	.69956	258.35199
	GRADIENT	.00073	-.00213	.01486	.00223	-.00005	-.00014	-.00048	.01348	-.00328	-.06575

OING1 LARC CFHT 118 (MA-22)

(RJA083) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 83/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.391	-.00206	.10273	-.17840	-.04478	.00051	-.00147	-.00204	-.16150	.12767	95.98452
10.330	-6.384	-.00281	.09363	-.15583	-.03714	-.00094	-.00217	.00766	-.14446	.11037	96.03164
10.330	-4.147	-.00573	.08623	-.12110	-.03618	-.00049	-.00187	.00722	-.11455	.09476	95.98403
10.330	-2.337	-.00251	.08035	-.09254	-.03434	-.00026	-.00232	.00542	-.08919	.08406	96.04013
10.330	-.276	-.00226	.07686	-.05756	-.03024	-.00005	-.00157	-.00129	-.05719	.07714	95.98367
10.330	1.795	.00264	.07318	-.03101	-.02541	-.00084	-.00300	.00416	-.03329	.07217	95.81492
10.330	3.810	.00124	.06965	.00137	-.02145	-.00058	-.00257	.00256	-.00326	.06958	95.98010
10.330	5.795	.00013	.06688	.03638	-.01767	-.00036	-.00218	.00116	.02944	.07021	95.91312
10.330	8.047	-.00209	.06467	.07993	-.01280	-.00083	-.00178	-.00009	.07009	.07522	95.92463
10.330	9.891	-.00374	.06214	.11368	-.00913	-.00203	-.00279	.00499	.10132	.08074	95.86219
10.330	15.064	-.00928	.05975	.25845	-.00456	-.00288	-.00228	.00276	.23404	.12487	95.69991
10.330	20.189	-.01723	.06047	.43937	-.00241	-.00397	-.00190	.00053	.39151	.20838	95.87701
10.330	25.350	-.02287	.06146	.65119	-.00645	-.00457	-.00180	-.00208	.56218	.33421	95.97939
10.330	30.351	-.03094	.06131	.87986	-.01699	-.00522	-.00157	-.00381	.72629	.49750	95.96888
10.330	35.594	-.04039	.06066	1.13062	-.03385	-.00617	-.00177	-.00620	.88407	.70739	95.93343
	GRADIENT	.00095	-.00201	.01528	.00192	-.00004	-.00010	-.00052	.01389	-.00309	-.01185

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MA22 - FORCE SOURCE DATA TABULATION

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01N61 LARC CFHT 118 (MA-22)

(RJA084) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 84/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.379	.00150	.10154	-.17990	-.04397	.00055	-.00267	.00149	-.16319	.12687	192.58188
10.330	-6.407	-.00381	.09238	-.16079	-.03693	-.00138	-.00259	.01381	-.14948	.10974	192.36043
10.330	-4.310	-.00096	.08424	-.12550	-.03798	-.00072	-.00308	.01219	-.11881	.09343	192.53699
10.330	-2.311	.00434	.07900	-.09587	-.03694	-.00012	-.00390	.00875	-.09261	.08280	192.51283
10.330	-.245	.00806	.07420	-.06980	-.03227	-.00007	-.00442	.00808	-.06949	.07450	192.06605
10.330	1.820	.01127	.07065	-.03812	-.02580	-.00034	-.00492	.00877	-.04035	.06940	192.21527
10.330	4.057	.00713	.06770	.00078	-.02034	-.00064	-.00450	.00804	-.00401	.06759	192.27874
10.330	5.977	.00751	.06475	.03066	-.01563	-.00037	-.00450	.00744	.02375	.06759	192.33132
10.330	8.040	.00290	.06211	.06927	-.01133	-.00192	-.00430	.00830	.05991	.07119	192.19986
10.330	9.861	.00032	.05825	.10045	-.00776	-.00160	-.00356	.00701	.08899	.07459	192.08727
10.330	15.068	-.01039	.05856	.25091	-.00504	-.00343	-.00282	.00567	.22706	.12177	191.83055
10.330	20.170	-.02599	.05969	.42952	.00068	-.00580	-.00225	.00358	.38260	.20413	191.79164
10.330	25.303	-.03619	.06058	.63651	-.00259	-.00688	-.00228	.00267	.54956	.32681	192.00740
10.330	30.331	-.04459	.06098	.86824	-.01331	-.00744	-.00226	.00102	.71860	.49109	192.01212
10.330	35.573	-.05986	.06025	1.11722	-.02998	-.00888	-.00237	-.00177	.87367	.69893	191.67247
10.330	GRADIENT	.00109	-.00198	.01489	.00223	-.00000	-.00018	-.00039	.01353	-.00310	-.03845

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MA22 - FORCE SOURCE DATA TABULATION

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OIN61 LARC CFHT 118 (MA-22)

(RJA085) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = .000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 85/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.282	-.00067	.09935	-.19054	-.03999	-.00146	-.00359	.01871	-.17424	.12576	258.47850
10.330	-6.499	-.00335	.09199	-.16350	-.03700	-.00164	-.00263	.01667	-.15204	.10991	258.36444
10.330	-4.361	.00172	.08289	-.12943	-.03769	-.00095	-.00395	.01468	-.12276	.09250	257.83139
10.330	-2.325	.00698	.07752	-.10172	-.03719	-.00049	-.00465	.01026	-.09849	.08159	258.05960
10.330	-.274	.01013	.07324	-.07649	-.03235	-.00035	-.00487	.00959	-.07614	.07360	257.99001
10.330	1.800	.01056	.06948	-.04551	-.02595	-.00050	-.00538	.01064	-.04767	.06802	257.99743
10.330	3.822	.01050	.06675	-.00459	-.02109	-.00076	-.00523	.01056	-.00903	.06629	258.16000
10.330	5.821	.01160	.06418	.02102	-.01683	-.00017	-.00554	.01000	.01440	.06598	257.98417
10.330	8.045	.01022	.06097	.06371	-.01032	-.00139	-.00591	.01227	.05455	.06928	258.14819
10.330	9.857	.00240	.05860	.10012	-.00950	-.00209	-.00477	.01089	.08861	.07487	257.87934
10.330	15.049	-.01284	.05787	.24636	-.00266	-.00457	-.00293	.00654	.22289	.11985	257.63797
10.330	20.193	-.03093	.05936	.42432	.00240	-.00715	-.00231	.00523	.37774	.20218	258.01247
10.330	25.293	-.04323	.06012	.62963	-.00040	-.00816	-.00242	.00488	.54358	.32337	258.08223
10.330	30.503	-.05525	.06053	.86756	-.01076	-.00906	-.00259	.00283	.71677	.49251	257.69818
10.330	35.529	-.06976	.06006	1.10959	-.02735	-.01030	-.00264	.00031	.86810	.69368	257.81265
	GRADIENT	.00103	-.00197	.01493	.00217	.00002	-.00016	-.00038	.01358	-.00322	.02898

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MA22 - FORCE SOURCE DATA TABULATION

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OINB4 LARC CFHT 118 (MA-22)

(RJAC86) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 86/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.431	-.00568	.10410	-.17758	-.04494	.00044	-.00049	-.00444	-.16040	.12901	-.39467
10.330	-6.425	-.00544	.09684	-.14796	-.03921	.00022	-.00055	-.00443	-.13619	.11279	-.42551
10.330	-4.436	-.00562	.09101	-.11833	-.03591	.00027	-.00065	-.00410	-.11093	.09989	-.39509
10.330	-2.328	-.00426	.08122	-.08479	-.03508	.00018	-.00066	-.00397	-.08142	.08459	-.39463
10.330	-.273	-.00510	.07633	-.05391	-.03207	.00008	-.00060	-.00386	-.05355	.07658	-.42552
10.330	1.775	-.00432	.07277	-.02534	-.02719	.00003	-.00069	-.00333	-.02758	.07195	-.45575
10.330	3.787	-.00498	.06964	.00541	-.02308	-.00006	-.00070	-.00321	.00080	.06985	-.39465
10.330	5.768	-.00380	.06725	.03887	-.01901	-.00008	-.00067	-.00340	.03192	.07081	-.39494
10.330	8.009	-.00591	.06523	.08277	-.01493	-.00027	-.00078	-.00338	.07287	.07613	-.39463
10.330	9.837	-.00250	.06049	.11436	-.00995	.00027	-.00073	-.00452	.10235	.07913	-.42531
10.330	15.050	-.00379	.06180	.26951	-.00912	-.00063	-.00110	-.00415	.24422	.12967	-.36427
10.330	20.183	-.00385	.06317	.45136	-.00794	-.00101	-.00114	-.00584	.40185	.21502	-.36443
10.330	25.307	-.00579	.06358	.65814	-.01125	-.00149	-.00111	-.00799	.56780	.33881	-.42472
10.330	30.307	-.00954	.06301	.88807	-.02192	-.00197	-.00098	-.01009	.73490	.50255	-.39477
10.330	35.532	-.01234	.06226	1.13860	-.03908	-.00246	-.00196	-.01207	.89041	.71237	-.39462
	GRADIENT	.00006	-.00250	.01494	.00163	-.00004	-.00001	.00012	.01350	-.00355	-.00297

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MA22 - FORCE SOURCE DATA TABULATION

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OIN84 LARC CFHT 118 (MA-22)

(RJA087) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 87/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEL	CYN	CY	CL	CD	T/OA
10.330	-8.264	-.02928	.09609	-.19072	-.04131	-.00192	.00841	-.03712	-.17493	.12251	95.91065
10.330	-6.504	-.03748	.08731	-.16527	-.03829	-.00413	.01102	-.04215	-.15431	.10547	95.91275
10.330	-4.384	-.05496	.08036	-.13322	-.03966	-.00578	.01390	-.03896	-.12669	.09031	95.93147
10.330	-2.333	-.06399	.07536	-.10817	-.03656	-.00681	.01474	-.03470	-.10501	.07970	95.98381
10.330	-.328	-.06627	.07186	-.08188	-.03225	-.00689	.01435	-.03287	-.08146	.07233	95.78207
10.330	1.728	-.06034	.06948	-.05678	-.02720	-.00621	.01227	-.02775	-.05885	.06774	95.78629
10.330	4.014	-.05172	.06585	-.02250	-.02143	-.00510	.00995	-.02365	-.02706	.06411	95.82837
10.330	5.756	-.04588	.06271	.00822	-.01744	-.00435	.00806	-.01932	.00189	.06322	95.65883
10.330	7.978	-.03452	.06016	.05805	-.01360	-.00308	.00530	-.01374	.04914	.06763	95.71185
10.330	9.820	-.02400	.05816	.09588	-.00898	-.00066	.00453	-.01698	.08456	.07367	95.75573
10.330	14.975	-.00556	.05697	.24119	-.00457	.00154	.00241	-.01646	.21828	.11736	95.80811
10.330	20.266	.00504	.05936	.43005	-.00202	.00235	.00170	-.01799	.38286	.20465	95.66336
10.330	25.334	.00757	.06060	.64079	-.00484	.00194	.00161	-.01954	.55323	.32896	95.74170
10.330	30.314	.00859	.06036	.86688	-.01464	.00178	.00179	-.02134	.71789	.48965	95.70270
10.330	35.579	.01262	.06024	1.11953	-.03193	.00169	.00196	-.02384	.87548	.70035	95.62141
	GRADIENT	.00052	-.00167	.01309	.00220	.00010	-.00050	.00180	.01178	-.00307	-.00473

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MA22 - FORCE SOURCE DATA TABULATION

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01N84 LARC CFHT 118 (MA-22)

(RJA088) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 SOFLAP = .000
 NO.JET = 2.000

RUN NO. 88/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	ALPHA	BETA	CAU	CN	CLM	CLL	CYN	CY	CL	CD	T/OA
10.330	-8.268	-.06779	.08859	-.20419	-.03618	-.00954	.02223	-.07236	-.18932	.11704	191.66811
10.330	-6.480	-.08394	.08166	-.17971	-.03383	-.01096	.02478	-.07142	-.16935	.10142	191.87060
10.330	-4.374	-.09862	.07657	-.14768	-.03593	-.01210	.02600	-.06301	-.14141	.08761	191.63728
10.330	-2.336	-.09316	.07303	-.12206	-.03243	-.01098	.02287	-.05559	-.11898	.07794	191.72033
10.330	-.333	-.07935	.06802	-.09831	-.03011	-.00907	.01819	-.04231	-.09791	.06859	191.66076
10.330	1.738	-.06768	.06521	-.07276	-.02535	-.00696	.01427	-.03323	-.07471	.06297	191.50080
10.330	4.031	-.05277	.06288	-.04012	-.02217	-.00433	.01020	-.02408	-.04444	.05991	191.47041
10.330	5.818	-.03974	.06112	-.00834	-.02009	-.00281	.00721	-.01808	-.01450	.05996	191.11541
10.330	7.885	-.03483	.05799	.03540	-.01238	-.00126	.00656	-.01763	.02711	.06230	191.32072
10.330	9.920	-.03027	.05598	.08113	-.00933	-.00091	.00587	-.01894	.07028	.06912	191.26603
10.330	15.105	-.01662	.05448	.22905	-.00282	.00127	.00498	-.02153	.20694	.11229	191.19627
10.330	20.240	.00342	.05697	.40893	.00040	.00359	.00435	-.02600	.36397	.19492	190.91243
10.330	25.369	.00827	.05771	.62370	-.00130	.00341	.00437	-.02877	.53883	.31937	191.23574
10.330	30.401	.01442	.05837	.85555	-.01028	.00375	.00488	-.03054	.70838	.48329	191.00844
10.330	35.596	.01686	.05806	1.10584	-.02755	.00332	.00499	-.03245	.86541	.69028	190.99068
	GRADIENT	.00562	-.00168	.01267	.00166	.00094	-.00192	.00479	.01142	-.00335	-.02662

01N84 LARC CFHT 118 (MA-22)

(RJA089) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/OA	=	255.400
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 89/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.276	-.09539	.08454	-.21685	-.03005	-.01341	.03074	-.09074	-.20243	.11487	258.00795
10.330	-6.329	-.11445	.07831	-.18758	-.03150	-.01421	.03270	-.08363	-.17780	.09851	257.82725
10.330	-4.173	-.11394	.07432	-.15454	-.03206	-.01334	.02997	-.07231	-.14872	.08536	257.17170
10.330	-2.338	-.10163	.07056	-.12896	-.02972	-.01165	.02537	-.06166	-.12597	.07576	257.35295
10.330	-.289	-.08498	.06529	-.10580	-.02679	-.00911	.01948	-.04625	-.10547	.06582	257.56564
10.330	1.775	-.06541	.06213	-.08122	-.02261	-.00603	.01423	-.03494	-.08311	.05959	257.40570
10.330	3.763	-.05310	.06080	-.05413	-.02129	-.00379	.01081	-.02744	-.05801	.05711	257.36820
10.330	5.791	-.04562	.05972	-.02341	-.01950	-.00276	.00855	-.02152	-.02932	.05706	257.22699
10.330	7.860	-.04229	.05725	.01917	-.01583	-.00276	.00740	-.01790	.01117	.05933	256.87153
10.330	10.120	-.03844	.05427	.07447	-.00611	-.00042	.00821	-.02253	.06378	.06651	257.08557
10.330	15.083	-.02660	.05282	.21713	-.00253	.00052	.00695	-.02435	.19591	.10750	256.84216
10.330	20.253	-.00237	.05483	.39743	.00196	.00392	.00610	-.02975	.35387	.18902	256.43983
10.330	25.362	.00887	.05644	.61203	.00131	.00434	.00632	-.03435	.52886	.31315	256.84019
10.330	30.481	.01464	.05646	.84626	-.00719	.00461	.00684	-.03573	.70067	.47792	256.60944
10.330	35.472	.01659	.05631	1.08678	-.02382	.00400	.00701	-.03769	.85240	.67652	255.98724
	GRADIENT	.00790	-.00177	.01243	.00143	.00124	-.00247	.00583	.01122	-.00363	.02180

01N84 LARC CFHT 118 (MA-22)

(RJA090) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.8000 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 90/ 0 RN/L = .93 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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MA22 - FORCE SOURCE DATA TABULATION

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01N84 LARC CFHT 118 (MA-22)

(RJA091) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 91/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.352	-3.00242	.10984	-.20188	-.04775	-.00192	.00072	.03599	-.17885	.14433	-.36548
10.330	-.214	-3.06114	.07687	-.05213	-.03045	-.00038	.00283	.02576	-.05184	.07707	-.42632
10.330	9.953	-3.01245	.06122	.12663	-.01038	.00131	.00412	.01553	.11414	.08219	-.36506
10.330	20.103	-2.86472	.06279	.45373	-.00692	.00217	.00385	.01310	.40451	.21492	-.42606
10.330	35.590	-2.46127	.06242	1.13849	-.04123	.00275	.00323	.00399	.88950	.71334	-.42642
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N84 LARC CFHT 118 (MA-22)

(RJA092) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 92/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.356	2.91005	.10892	-.20214	-.04749	.00340	-.00163	-.04350	-.17927	.14348	-.36517
10.330	-.243	2.97431	.07705	-.05653	-.03093	.00067	-.00424	-.03179	-.05620	.07729	-.39546
10.330	9.837	2.92854	.06258	.12178	-.01132	-.00187	-.00506	-.02481	.10930	.08246	-.39565
10.330	20.228	2.77944	.06279	.45032	-.00897	-.00423	-.00557	-.02470	.40083	.21462	-.36514
10.330	35.629	2.37213	.06285	1.13705	-.03969	-.00748	-.00508	-.02776	.88758	.71346	-.36507
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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01N84 LARC CFHT 118 (MA-22)

(RJAD93) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 93/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N84 LARC CFHT 118 (MA-22)

(RJA094) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NOJET	=	2.000			

RUN NO. 94/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA095) (12 JAN 78)

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	95.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

[illegible]

(RJA096) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	190.000
ELEVON	=	.000	BOFLAP	=	.000
NOJET	=	2.000			

[illegible]

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N84 LARC CFHT 118 (MA-22)

(RJA097) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	190.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 97/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01NB4 LARC CFHT 118 (MA-22)

(RJA098) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	190.000
ELEVON	=	.000	SDFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 98/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA099) (12 JAN 78)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	255.400
ELEVON	=	.000	SDFLAP	=	.000
NO. JET	=	2.000			

[illegible]

(RJA100) (12 JAN 76)

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	255.400
ELEVON	=	.000	BDFLAP	=	.000
NOJET	=	2.000			

[illegible]

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(RJA101) (12 JAN 78)

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	255.400
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

MACH	ALPHA	BETA	CAU	CN	CLM	CLL	CYN	CY	CL	CD	T/DA
10.330	-10.496	2.82946	.08699	-.24834	-.03253	-.00905	.03091	-.13184	-.22633	.13077	256.54005
10.330	-.224	2.86313	.06636	-.08924	-.02397	-.01282	.02502	-.08185	-.08898	.06671	256.71625
10.330	9.959	2.89948	.05399	.08106	-.00760	-.00219	.00453	-.04174	.07050	.06720	256.02623
10.330	20.410	2.79328	.05433	.40543	-.00414	.00161	.00182	-.04885	.36103	.19231	256.14114
10.330	35.540	2.41143	.05587	1.08044	-.02350	-.00116	.00292	-.05480	.84668	.67349	256.42937
	GRADIENT	.00000	.00000	.00000	.00060	.00000	.00000	.00000	.00000	.00000	.00000

(RJA102) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	.000	BOFLAP	=	.000
NOJET	=	2.000			

[illegible]

(RJA105) (12 JAN 78)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NOJET	=	2.000			

[illegible]

(RJA105) (12 JAN 76)

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	2.000			

[illegible]

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(RJA107) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 107/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.261	2.91962	.09993	-.22119	-.03443	.00325	-.00031	-.04224	-.19985	.13774	96.12309
10.330	-.194	2.98053	.06699	-.08294	-.02063	.00210	-.00340	-.02342	-.08271	.06727	96.06581
10.330	10.146	2.94602	.05305	.09705	.00296	.00023	-.00569	-.02034	.08619	.06932	95.95294
10.330	20.420	2.79261	.05181	.41583	.01370	-.00303	-.00462	-.02674	.37162	.19364	95.82646
10.330	35.723	2.38780	.05185	1.09792	-.01525	-.00661	-.00402	-.03134	.86107	.68313	95.81136
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N85N50 LARC CFHT 118 (MA-22)

(RJA108) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 108/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.287	-.03683	.08908	-.24303	-.02024	.00168	.00219	.00512	-.22322	.13104	192.86145
10.330	-.205	-.01651	.05801	-.10790	-.01030	.00335	-.00025	-.00074	-.10769	.05839	192.35157
10.330	10.143	-.00674	.04470	.07588	.01160	.00223	-.00138	-.00037	.06682	.05737	192.08535
10.330	20.469	-.02022	.04335	.39580	.02557	-.00124	.00076	-.00802	.35547	.17950	191.58615
10.330	35.714	-.02420	.04530	1.07123	.00073	-.00276	.00090	-.01601	.84334	.66210	191.32973
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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01N85N50 LARC CFHT 118 (MA-22)

(RJA109) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	190.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 109/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N85N50 LARC CFHT 118 (MA-22)

(RJA110) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES    YMRP = .0000 IN. YO
BREF = 936.6800 INCHES    ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	190.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 110/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA111) (12 JAN 75)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	255.400
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

[illegible]

(RJA112) (12 JAN 76)

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	255.400
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	2.000			

[illegible]

01N85N50 LARC CFHT 118 (MA-22)

(RJA113) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = 255.400
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 113/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/OA
10.330	-10.321	2.93406	.08186	-.25768	-.00444	.00291	.00482	-.03943	-.23885	.12670	256.24994
10.330	-.172	3.02027	.05196	-.12270	.00687	.00219	-.00242	-.02136	-.12254	.05233	256.13414
10.330	10.044	2.98077	.04087	.05172	.01848	.00175	-.00224	-.02407	.04380	.04926	255.88689
10.330	20.526	2.81151	.03822	.37918	.03488	-.00573	-.00207	-.02968	.34170	.16875	255.46063
10.330	35.794	2.41566	.04068	1.05692	.01147	-.00703	-.00258	-.03466	.83350	.65116	255.99516
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N85N50 LARC CFHT 118 (MA-22)

(RJA114) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 114/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/OA
10.330	-8.356	.00198	.10450	-.17883	-.04541	.00042	-.00047	-.00333	-.16175	.12938	-.08924
10.330	-6.441	.00069	.09741	-.15061	-.03952	.00018	-.00050	-.00309	-.13873	.11369	-.11901
10.330	-4.289	.00104	.09127	-.11827	-.03616	.00022	-.00055	-.00298	-.11112	.09986	-.08924
10.330	-2.293	.00220	.08158	-.08434	-.03551	.00016	-.00051	-.00303	-.08101	.08489	-.05949
10.330	-.240	.00214	.07640	-.05554	-.03230	.00009	-.00048	-.00298	-.05522	.07664	-.08927
10.330	2.114	.00282	.07258	-.02186	-.02673	.00002	-.00054	-.00255	-.02452	.07172	-.08923
10.330	3.929	.00383	.06976	.00713	-.02301	-.00006	-.00052	-.00247	.00233	.07009	-.05949
10.330	5.964	.00135	.06715	.04055	-.01876	-.00008	-.00049	-.00268	.03336	.07100	-.05951
10.330	8.074	.00237	.06543	.08341	-.01506	-.00022	-.00061	-.00275	.07339	.07650	-.08924
10.330	9.919	.00316	.06034	.11401	-.00981	.00027	-.00060	-.00421	.10191	.07908	-.08923
10.330	15.239	.00410	.06197	.27474	-.00905	-.00066	-.00096	-.00410	.24879	.13200	-.08925
10.330	20.469	.00326	.06345	.46023	-.00788	-.00108	-.00101	-.00610	.40898	.22039	-.08928
10.330	25.422	.00114	.06402	.66352	-.01175	-.00151	-.00094	-.00821	.57179	.34266	-.02976
10.330	30.387	-.00060	.06300	.89052	-.02203	-.00199	-.00081	-.00991	.73632	.50481	-.08926
10.330	35.615	-.00421	.06239	1.14218	-.03944	-.00242	-.00080	-.01219	.89219	.71586	-.02976
	GRADIENT	.00030	-.00249	.01502	.00169	-.00003	.00000	.00007	.01359	-.00348	.00133

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MA22 - FORCE SOURCE DATA TABULATION

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O1N95N50 LARC CFHT 118 (MA-22)

(RJA115) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 115/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.241	-.00772	.09351	-.20332	-.02851	.00081	-.00003	-.00023	-.18782	.12169	96.84730
10.330	-6.325	-.01074	.08415	-.17084	-.02729	.00072	.00043	.00043	-.16053	.10246	96.61860
10.330	-4.269	-.01062	.07734	-.13617	-.02824	.00147	.00045	.00041	-.13004	.08727	96.75523
10.330	-2.287	-.00341	.07217	-.10994	-.02716	.00197	-.00073	-.00140	-.10697	.07650	96.65977
10.330	-.224	.00105	.06733	-.08346	-.02331	.00188	-.00120	-.00120	-.08319	.06766	96.56338
10.330	1.850	.00264	.06382	-.05553	-.01620	.00212	-.00171	.00009	-.05757	.06200	96.53666
10.330	3.812	.00440	.06078	-.02509	-.01050	.00219	-.00186	.00009	-.02908	.05898	96.52532
10.330	5.881	.00599	.05781	.01010	-.00473	.00266	-.00180	-.00049	.00413	.05854	96.44287
10.330	7.956	.00457	.05569	.04974	.00150	.00117	-.00171	-.00023	.04155	.06203	96.33182
10.330	10.055	.00428	.05319	.09397	.00241	.00101	-.00144	-.00072	.08324	.06878	96.34850
10.330	15.142	.00170	.05069	.23471	.00803	.00002	-.00068	-.00464	.21332	.11024	96.18084
10.330	20.303	-.00147	.05182	.40858	.01302	-.00078	-.00037	-.00687	.36521	.19037	96.32054
10.330	25.455	-.00421	.05309	.61881	.00991	-.00113	-.00020	-.00910	.53592	.31390	96.32042
10.330	30.438	-.00991	.05256	.84491	.00051	-.00191	.00018	-.01147	.70183	.47335	96.18223
10.330	35.636	-.01343	.05192	1.09265	-.01516	-.00256	.00025	-.01471	.85780	.67880	96.39022
	GRADIENT	.00178	-.00204	.01362	.00229	.00008	-.00028	.00004	.01238	-.00350	-.02873

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 OF POOR QUALITY

01N85N50 LARC CFHT 118 (MA-22)

(RJA118) (12 JAN 76)

REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 116/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.247	-.02285	.08369	-.22214	-.01613	.00302	.00153	-.00043	-.20784	.11468	192.26591
10.330	-6.082	-.01930	.07406	-.18626	-.01425	.00267	.00138	-.00096	-.17737	.09338	192.06220
10.330	-4.248	-.00980	.06814	-.16187	-.01385	.00312	-.00018	-.00081	-.15638	.07995	191.83760
10.330	-2.185	-.00600	.06243	-.13495	-.01239	.00346	-.00079	-.00069	-.13247	.06753	191.65306
10.330	-.210	-.00645	.05787	-.10755	-.01016	.00321	-.00014	-.00118	-.10734	.05826	191.31607
10.330	2.058	-.00140	.05436	-.08100	-.00495	.00311	-.00077	-.00229	-.08290	.05142	191.24852
10.330	3.804	.00026	.05198	-.05703	-.00136	.00316	-.00080	-.00180	-.06036	.04808	191.27139
10.330	5.803	.00423	.04950	-.02399	.00228	.00386	-.00111	-.00274	-.02886	.04682	191.33311
10.330	7.963	.00740	.04633	.02476	.01013	.00270	-.00215	.00128	.01810	.04932	191.30506
10.330	10.025	.00530	.04490	.07087	.01182	.00221	-.00150	-.00047	.06197	.05655	191.02141
10.330	15.084	-.00454	.04289	.21113	.01894	-.00006	.00002	-.00536	.19269	.09636	191.12335
10.330	20.488	-.01246	.04362	.39255	.02573	-.00137	.00072	-.00830	.35246	.17826	191.28766
10.330	25.373	-.00917	.04477	.58742	.02567	-.00132	.00064	-.01002	.51157	.29217	190.64120
10.330	30.509	-.01761	.04502	.81836	.01790	-.00266	.00101	-.01401	.68220	.45425	190.97334
10.330	35.822	-.01958	.04480	1.07463	.00066	-.00295	.00081	-.01644	.84513	.66527	191.04328
	GRADIENT	.00122	-.00199	.01295	.00159	-.00001	-.00006	-.00018	.01187	-.00393	-.07586

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(RJA117) (12 JAN 78)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	255.400
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.293	-.02613	.07695	-.23893	-.00497	.00401	.00205	-.00061	-.22533	.11061	256.91883
10.330	-6.383	-.02028	.06865	-.20917	-.00327	.00384	.00085	-.00062	-.20024	.09148	256.74794
10.330	-4.283	-.01143	.06195	-.18068	-.00180	.00431	-.00038	-.00029	-.17555	.07527	256.63280
10.330	-2.249	-.00855	.05665	-.15191	-.00029	.00430	-.00059	.00089	-.14957	.06257	256.69751
10.330	-.093	-.00868	.05128	-.12164	.00147	.00395	-.00001	-.00069	-.12155	.05148	256.09060
10.330	2.054	-.00581	.04787	-.09616	.00478	.00400	-.00033	-.00048	-.09781	.04439	255.97017
10.330	3.907	-.00096	.04639	-.07278	.00717	.00422	-.00066	-.00059	-.07577	.04133	256.79200
10.330	6.120	.00132	.04479	-.03505	.00935	.00488	-.00051	-.00343	-.03962	.04080	255.72180
10.330	8.060	.00209	.04128	.01132	.01727	.00370	-.00029	-.00352	.00542	.04245	255.49578
10.330	10.075	.00142	.03986	.05653	.02001	.00305	-.00002	-.00425	.04869	.04913	255.68741
10.330	15.031	-.00784	.03819	.19623	.02530	.00054	.00081	-.00628	.17961	.08777	255.97555
10.330	20.432	-.01717	.03831	.73657	.03373	-.00169	.00162	-.00923	.33951	.16736	255.67397
10.330	25.508	-.02099	.03998	.57549	.03515	-.00258	.00168	-.01145	.45028	.28391	255.45404
10.330	30.606	-.02537	.04079	.80419	.02780	-.00312	.00173	-.01492	.67139	.44454	255.35019
10.330	35.722	-.02228	.04029	1.05157	.01177	-.00302	.00139	-.01690	.83020	.64667	255.06206
	GRADIENT	.00114	-.00194	.01313	.00111	-.00002	-.00001	-.00010	.01215	-.00417	-.02253

(RJA:18) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	95.000
ELEVON	=	.000	BDFLAP	=	.000
NOJET	=	2.000			

[illegible]

01N85 LARC CFHT 118 (MA-22)

(RJA119) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6000 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	Y/GA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 119/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N85 LARC CFHT 118 (MA-22)

(RJA120) (12 JAN 75)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 120/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA121) (12 JAN 78)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	190.000
ELEVON	=	.000	BDCLAP	=	.000
NO. JET	=	2.000			

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-10.358	.00315	.10410	-.21751	-.04266	-.00220	-.00401	.02031	-.19525	.14151	190.18351
10.330	-.247	.00971	.07288	-.08140	-.03207	-.00051	-.00496	.01012	-.08108	.07323	190.17651
10.330	9.957	.00490	.05899	.10172	-.00973	-.00213	-.00469	.01075	.08999	.07569	190.17483
10.330	20.075	-.03235	.05883	.41470	.00270	-.00762	-.00210	.00547	.36931	.19760	189.88246
10.330	35.673	-.07166	.05999	1.10620	-.02703	-.01090	-.00250	.00032	.86364	.69383	189.99142
	GRADIENT	.00000	.00000	.00000	-.00000	-.00000	.00000	.00000	.00000	.00000	.00000

(RJA122) (12 JAN 76)

PARAMETRIC DATA

BETA = -3.000 T/QA = 190.000
ELEVON = .000 BDFLAP = .000
NOJET = 2.000

[illegible]

01NBS LARC CEHT 118 (MA-22)

(RJA123) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES    YMRP = .0000 IN. YO
BREF = 936.6800 INCHES    ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	190.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 123/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N85 LARC CFHT 118 (MA-22)

(RJA124) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	380.000
ELEVON	=	.000	BOFLAP	=	.000
NOJET	=	2.000			

RUN NO. 124/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(RJA125) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.8000 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	380.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 125/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N85 LARC CFHT 118 (MA-22)

(RJA128) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6000 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	380.000
ELEVON	=	.000	BDFLAP	=	.000
NOJET	=	2.000			.

RUN NO. 126/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N51 LARC CFHT 118 (MA-22)

(RJA127) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	190.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	4.000			

[illegible]

01N51 LARC CFHT 118 (MA-22)

(RJA128) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	190.000
ELEVON	=	.000	BDFLAP	=	.000
NOJET	=	4.000			

[illegible]

MA22 - FORCE SOURCE DATA TABULATION

01N51 LARC CFHT 118 (MA-22)

(RJA129) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	190.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	4.000			

RUN NO. 129/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N51 LARC CFHT 118 (MA-22)

(RJA130) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	380.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	4.000			

RUN NO. 130/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N51 LARC CFHT 118 (MA-22)

(RJA131) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6900 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	300.000
ELEVON	=	.000	SDFLAP	=	.000
NO. JET	=	4.000			

RUN NO. 131/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N51 LARC CFHT 118 (MA-22)

(RJA132) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES    YMRP = .0000 IN. YO
BREF = 936.6800 INCHES    ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	380.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	4.000			

RUN NO. 132/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA133) (12 JAN 78)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	510.800
ELEVON	=	.000	BDCLAP	=	.000
NOJET	=	4.000			

RUN NO. 133/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

(RJA134) (12 JAN 76)

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	510.800
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	4.000			

RUN NO. 134/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N51 LARC CFHT 118 (MA-22)

(RJA135) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1078.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	510.800
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	4.000			

RUN NO. 135/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N51 LARC CFHT 118 (MA-22)

(RJA136) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.8000 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	.000	BOFLAP	=	.000
NO-JET	=	4.000			

RUN NO. 136/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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OINSI LARC CFHT 118 (MA-22)

(RJA137) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = .000
 ELEVON = .050 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 137/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.223	-2.99974	.10940	-.19932	-.04801	-.00188	.00082	.03545	-.17674	.14304	-.22092
10.330	-.221	-3.05505	.07682	-.05256	-.03076	-.00041	.00287	.02591	-.05226	.07702	-.16572
10.330	10.006	-3.00742	.06085	.12653	-.01051	.00128	.00422	.01543	.11403	.08191	-.27612
10.330	20.453	-2.85278	.06286	.46558	-.00733	.00208	.00404	.01259	.41427	.22158	-.22087
10.330	35.749	-2.45056	.06239	1.14331	-.04237	.00266	.00352	.00323	.89144	.71860	-.33138
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

OINSI LARC CFHT 118 (MA-22)

(RJA138) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 138/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.222	2.93011	.10850	-.20086	-.04744	.00342	-.00166	-.04366	-.17842	.14242	-.22097
10.330	-.229	2.99306	.07674	-.05573	-.03101	.00067	-.00419	-.03188	-.05542	.07697	-.27617
10.330	10.085	2.94439	.06197	.12645	-.01099	-.00192	-.00508	-.02488	.11365	.08316	-.22096
10.330	20.353	2.79203	.06266	.45458	-.00913	-.00428	-.00547	-.02501	.40441	.21685	-.27626
10.330	35.625	2.38629	.06274	1.13053	-.03946	-.00755	-.00478	-.02823	.88240	.70951	-.16571
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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01N51 LARC CFHT 118 (MA-22)

(RJA139) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 139/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.442	.01060	.10135	-.17792	-.04475	.00061	-.00199	-.00073	-.16112	.12637	190.90539
10.330	-6.289	.01027	.09140	-.15561	-.03665	-.00111	-.00260	.01107	-.14466	.10789	191.12324
10.330	-4.266	.00818	.08433	-.12150	-.03731	-.00053	-.00241	.01004	-.11489	.09313	190.77580
10.330	-2.274	.01282	.07903	-.09081	-.03553	-.00017	-.00304	.00746	-.08761	.08257	190.79585
10.330	-.241	.01575	.07430	-.06107	-.03293	.00002	-.00319	.00493	-.06076	.07456	190.77835
10.330	2.050	.01518	.07041	-.02957	-.02432	-.00121	-.00380	.00701	-.03207	.06930	190.64172
10.330	3.738	.01770	.06752	-.00327	-.02058	-.00085	-.00390	.00651	-.00767	.06716	190.27718
10.330	5.972	.01710	.06441	.03148	-.01560	-.00046	-.00396	.00601	.02461	.06733	190.46597
10.330	8.032	.01271	.06243	.07261	-.01142	-.00212	-.00341	.00607	.06317	.07196	190.41444
10.330	9.841	.01195	.05827	.10280	-.00710	-.00180	-.00308	.00512	.09133	.07498	190.34107
10.330	14.969	.00275	.05815	.24868	-.00504	-.00329	-.00274	.00481	.22522	.12041	189.77639
10.330	20.311	-.00879	.05933	.43063	-.00055	-.00516	-.00234	.00285	.38326	.20512	190.17324
10.330	25.230	-.02125	.06068	.63151	-.00392	-.00630	-.00212	.00194	.54540	.32407	190.08216
10.330	30.568	-.02821	.06101	.87332	-.01539	-.00689	-.00214	.00010	.72092	.49668	189.88751
10.330	35.616	-.03828	.06023	1.11418	-.03178	-.00752	-.00216	-.00210	.87068	.69780	189.81396
	GRADIENT	.00104	-.00208	.01463	.00220	-.00009	-.00018	-.00037	.01327	-.00321	-.05569

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MA22 - FORCE SOURCE DATA TABULATION

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01N51 LARC CFHT 118 (MA-22)

(RJA140) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 140/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.149	.01262	.09801	-.18740	-.04087	-.00122	-.00402	.01878	-.17162	.12358	381.16312
10.330	-6.238	.00950	.09011	-.15633	-.03774	-.00131	-.00302	.01629	-.14561	.10656	380.69856
10.330	-4.115	.01491	.08163	-.12136	-.03875	-.00068	-.00409	.01393	-.11519	.09013	379.79147
10.330	-2.307	.01855	.07665	-.09508	-.03871	-.00029	-.00454	.01037	-.09192	.08041	379.92392
10.330	-.257	.02273	.07172	-.07298	-.03375	-.00017	-.00495	.00983	-.07266	.07204	379.86486
10.330	2.025	.02489	.06803	-.04097	-.02673	-.00031	-.00568	.01114	-.04335	.06654	379.44939
10.330	3.711	.02598	.06537	-.00937	-.02167	-.00084	-.00609	.01271	-.01358	.06463	379.49346
10.330	5.971	.02662	.06228	.02008	-.01655	-.00024	-.00607	.01092	.01349	.06404	378.85607
10.330	8.011	.02601	.05969	.06263	-.01130	-.00069	-.00671	.01422	.05370	.06784	378.76982
10.330	9.834	.02081	.05742	.09889	-.00937	-.00169	-.00574	.01300	.08763	.07346	379.21788
10.330	14.975	.00079	.05664	.24121	-.00167	-.00459	-.00349	.00796	.21839	.11704	378.84183
10.330	20.359	-.02384	.05807	.42238	.00362	-.00820	-.00254	.00670	.37579	.20139	378.92270
10.330	25.357	-.03495	.05940	.62770	.00052	-.00880	-.00281	.00653	.54178	.32250	378.58954
10.330	30.511	-.04316	.05926	.86255	-.01013	-.00925	-.00289	.00453	.71302	.48897	378.21621
10.330	35.530	-.05952	.05897	1.10444	-.02696	-.01035	-.00287	.00244	.86454	.68982	377.72164
	GRADIENT	.00142	-.00206	.01389	.00232	-.00002	-.00026	-.00008	.01257	-.00324	-.05510

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01N51 LARC CFHT 118 (MA-22)

(RJA141) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 510.800
 ELEVON = .000 BDCLAP = .000
 NO.JET = 4.000

RUN NO. 141/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.199	.00996	.09654	-.18997	-.04038	-.00143	-.00367	.02261	-.17416	.12263	514.07747
10.330	-6.269	.01203	.08766	-.15955	-.03742	-.00148	-.00371	.02047	-.14902	.10456	512.85101
10.330	-4.186	.02079	.07993	-.12649	-.03940	-.00064	-.00515	.01550	-.12032	.08895	512.39625
10.330	-2.387	.02416	.07451	-.10401	-.03851	-.00054	-.00551	.01185	-.10082	.07877	512.07274
10.330	-.168	.02644	.06974	-.07852	-.03299	-.00044	-.00566	.01183	-.07832	.06997	511.10173
10.330	1.885	.02477	.06679	-.05090	-.02826	-.00039	-.00574	.01177	-.05307	.06508	511.28077
10.330	4.113	.02716	.06311	-.01868	-.02259	-.00020	-.00630	.01320	-.02316	.06161	510.41419
10.330	5.904	.02819	.06057	.01169	-.01743	.00003	-.00660	.01323	.00540	.06145	510.56372
10.330	7.986	.02971	.05772	.05598	-.01337	-.00037	-.00720	.01593	.04742	.06491	509.79676
10.330	9.997	.02418	.05635	.09735	-.00930	-.00150	-.00644	.01483	.08609	.07239	510.61909
10.330	14.934	-.00242	.05551	.23196	.00032	-.00602	-.00377	.00977	.20982	.11341	510.24216
10.330	20.371	-.02972	.05703	.41385	.00506	-.00963	-.00269	.00879	.36812	.19753	510.01208
10.330	25.416	-.04100	.05843	.62137	.00190	-.01004	-.00305	.00882	.53616	.31946	509.81435
10.330	30.363	-.05631	.05860	.84599	-.00702	-.01109	-.00309	.00692	.70034	.47819	509.60070
10.330	35.668	-.07097	.05774	1.09682	-.02398	-.01198	-.00333	.00518	.85740	.68644	508.73811
	GRADIENT	.00063	-.00197	.01289	.00211	.00005	-.00012	-.00021	.01161	-.00325	-.22853

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(RJA142) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	.000	BDCLAP	=	.000
NOJET	=	4.000			

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.371	.00792	.10288	-.17613	-.04461	.00048	-.00049	-.00505	-.15928	.12742	-.27664
10.330	-6.389	.00937	.09586	-.14726	-.03871	.00027	-.00057	-.00473	-.13568	.11165	-.27669
10.330	-4.252	.00984	.08966	-.11521	-.03539	.00030	-.00066	-.00443	-.10825	.09796	-.22134
10.330	-2.211	.01004	.08000	-.08238	-.03465	.00020	-.00066	-.00441	-.07923	.08312	-.27663
10.330	-.212	.01112	.07525	-.05364	-.03139	.00012	-.00064	-.00410	-.05338	.07545	-.16602
10.330	1.897	.00943	.07168	-.02353	-.02671	.00003	-.00072	-.00365	-.02589	.07086	-.27662
10.330	3.849	.00929	.06892	.00687	-.02278	-.00005	-.00071	-.00352	.00223	.06913	-.22125
10.330	5.918	.00859	.06632	.03981	-.01871	-.00007	-.00071	-.00348	.03276	.07007	-.22130
10.330	8.018	.00928	.06459	.08127	-.01503	-.00023	-.00078	-.00348	.07147	.07529	-.22129
10.330	10.043	.01301	.05922	.11687	-.00990	.00040	-.00074	-.00472	.10475	.07869	-.27661
10.330	15.087	.01126	.06128	.26694	-.00932	-.00081	-.00111	-.00447	.24179	.12864	-.22131
10.330	20.240	.01031	.06223	.44560	-.00818	-.00098	-.00114	-.00627	.39656	.21254	-.27658
10.330	25.289	.00927	.06279	.65051	-.01145	-.00146	-.00106	-.00829	.56135	.33466	-.22128
10.330	30.493	.00493	.06219	.88465	-.02169	-.00191	-.00095	-.01024	.73074	.50248	-.22129
10.330	35.639	.00130	.06134	1.13117	-.03870	-.00232	-.00097	-.01238	.88357	.70896	-.16601
	GRADIENT	-.00009	-.00246	.01492	.00163	-.00004	-.00001	.00013	.01350	-.00345	-.00010

(1RJA143) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	Y/OA	=	.000
ELEVON	=	.000	BDFLAP	=	.000
NOJET	=	1.000			

[illegible]

01N78 LARC CFHT 118 (MA-22)

(RJA)44) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	.000
ELEVON	=	.000	BOFLAP	=	.000
NO.JET	=	1.000			

RUN NO. 144/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N78 LARC CFHT 118 (MA-22)

(RJA145) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	1.000			

RUN NO. 145/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA148) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 47.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 146/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.350	-.01395	.10602	-.20437	-.04854	.00042	.00136	-.00914	-.18199	.14101	47.68821
10.330	-.254	-.02256	.07345	-.05930	-.03329	-.00204	.00417	-.01409	-.05897	.07371	47.72217
10.330	10.003	-.02419	.05977	.11599	-.01026	-.00225	.00337	-.01191	.10385	.07901	47.66333
10.330	20.355	-.01609	.06232	.45363	-.00847	-.00240	.00128	-.01065	.40362	.21622	47.73868
10.330	35.627	-.01659	.06202	1.13857	-.03933	-.00294	.00031	-.01441	.88933	.71364	47.71786
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N78 LARC CFHT 118 (MA-22)

(RJA147) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 47.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 147/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.349	-2.99042	.10834	-.20662	-.04665	-.00191	.00269	.03188	-.18379	.14370	47.65534
10.330	-.188	-3.04621	.07776	-.05791	-.02875	-.00031	.00446	.02011	-.05765	.07795	47.63372
10.330	10.155	-3.01388	.06062	.12851	-.01018	-.00106	.00828	.00637	.11581	.08233	47.72348
10.330	20.290	-2.85161	.06259	.45982	-.00744	.00138	.00533	.01043	.40959	.21816	47.69828
10.330	35.668	-2.45034	.06167	1.14343	-.04194	.00241	.00458	.00116	.89297	.71682	47.61720
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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(RJA148) (12 JAN 78)

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	47.500
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	1.000			

[illegible]

(RJA149) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	95.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	1.000			

[illegible]

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(RJA150) (12 JAN 78)

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	95.000
ELEVON	=	.000	EDFLAP	=	.000
NO.JET	=	1.000			

[illegible]

(RJA151) (12 JAN 76)

PARAMETRIC DATA

BETA	=	3.000	T/OA	=	95.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	1.000			

[illegible]

MA22 - FORCE SOURCE DATA TABULATION

01N78 LARC CFHT 118 (MA-22)

(RJA152) (12 JAN 78)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	190.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	1.000			

RUN NO. 152/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N7B LARC CFHT 118 (MA-22)

(RJA:53) (12 JAN 76)

PARAMETRIC DATA

BETA	=	-3.000	T/OA	=	190.000
ELEVON	=	.000	BOFLAP	=	.000
NO-JET	=	1.000			

RUN NO. 153/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

OIN78 LARC CFHT 118 (MA-22)

(RJA154) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	190.000
ELEVON	=	.000	BOFLAP	=	.000
NOJET	=	1.000			

RUN NO. 154/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N52 LARC CFHT 118 (MA-22)

(RJA155) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6900 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	95.000
ELEVON	=	.000	BDFLAP	=	.000
NOJET	=	2.000			

RUN NO. 155/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N52 LARC CFHT 118 (MA-22)

(RJA158) (12 JAN 78)

REFERENCE DATA

```

SHEF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.8000 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NOJET	=	2.000			

RUN NO. 156/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N52 LARC CFHT 11B (MA-22)

(RJA157) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 157/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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MA22 - FORCE SOURCE DATA TABULATION

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01N52 LARC CFHT 118 (MA-22)

(RJA159) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 158/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-10.414	-.03756	.09770	-.20542	-.04743	-.00253	.00810	-.02227	-.18535	.13341	192.39535
10.330	-.243	-.09220	.07006	-.07446	-.03274	-.01214	.02031	-.04419	-.07417	.07038	192.68858
10.330	9.999	-.03545	.05716	.10938	-.01214	-.00357	.00465	-.01289	.09780	.07529	192.63535
10.330	20.179	-.03430	.05905	.43347	-.01034	-.00365	.00406	-.01583	.38650	.20495	192.30192
10.330	35.685	-.04297	.05914	1.12412	-.03997	-.00480	.00382	-.02145	.87855	.70377	191.88592
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N52 LARC CFHT 118 (MA-22)

(RJA159) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 159/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-10.418	-3.03252	.09764	-.21012	-.04608	-.00759	.01407	.00726	-.18900	.13402	192.31808
10.330	-.215	-3.12010	.07000	-.07001	-.03162	-.01098	.02124	-.01890	-.06975	.07026	192.22555
10.330	9.863	-3.02695	.05773	.10703	-.01192	-.00117	.00911	.00239	.09556	.07521	192.60331
10.330	20.123	-2.88332	.05979	.43930	-.00814	-.00007	.00930	.00050	.39191	.20727	191.87422
10.330	35.721	-2.47722	.05885	1.13044	-.04098	.00045	.00823	-.00717	.88341	.70777	192.34190
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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01N52 LARC CFHT 11B (MA-22)

(RJA160) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	190.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 160/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N52 LARC CFHT 118 (MA-22)

(RJA161) (12 JAN 75)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	380.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 161/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA:62) (12 JAN 78)

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	380.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

[illegible]

(RJA163) (12 JAN 76)

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	380.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

[illegible]

01N52 LARC CFHT 11B (MA-22)

(RJA154) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 164/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.252	-.02161	.09805	-.17818	-.04265	-.00083	.00361	-.01222	-.16228	.12281	96.18493
10.330	-6.293	-.02640	.09167	-.15004	-.03710	-.00192	.00516	-.01495	-.13908	.10756	96.09183
10.330	-4.096	-.03054	.08537	-.11690	-.03379	-.00250	.00561	-.01556	-.11050	.09351	96.21168
10.330	-2.302	-.03554	.07845	-.08986	-.03361	-.00398	.00762	-.02271	-.08663	.08199	96.25318
10.330	-.232	-.04096	.07038	-.05882	-.03267	-.00459	.00848	-.02190	-.05853	.07062	96.16181
10.330	1.837	-.05216	.06746	-.03434	-.02793	-.00625	.01040	-.02408	-.03549	.06632	96.28223
10.330	4.065	-.05596	.06626	-.00268	-.02201	-.00681	.01089	-.02506	-.00737	.06590	96.17820
10.330	5.942	-.05410	.06431	.02748	-.01780	-.00643	.00994	-.02307	.02068	.06680	96.20454
10.330	7.933	-.04613	.06209	.06808	-.01483	-.00538	.00757	-.01895	.05886	.07089	96.00469
10.330	9.999	-.03201	.05871	.11170	-.01132	-.00348	.00489	-.01415	.09981	.07721	96.18026
10.330	15.118	-.01761	.05938	.26198	-.01142	-.00200	.00168	-.00934	.23742	.12565	96.19691
10.330	20.249	-.02032	.06009	.43961	-.00904	-.00275	.00207	-.01233	.39165	.20852	96.09772
10.330	25.495	-.02888	.06135	.65466	-.01178	-.00367	.00286	-.01601	.56450	.33717	96.13805
10.330	30.492	-.02646	.06102	.88064	-.02191	-.00358	.00207	-.01625	.72789	.49943	96.00001
10.330	35.657	-.02486	.06013	1.12567	-.03844	-.00349	.00152	-.01775	.87958	.70505	96.06517
	GRADIENT	-.00330	-.00238	.01387	.00145	-.00053	.00065	-.00098	.01252	-.00342	-.00206

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MA22 - FORCE SOURCE DATA TABULATION

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01N52 LARC CFHT 118 (MA-22)

(RJA185) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 165/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.340	-.04474	.09391	-.18289	-.04231	-.00455	.01087	-.02668	-.16733	.11944	192.69478
10.330	-6.383	-.05543	.08784	-.15533	-.03578	-.00628	.01318	-.03128	-.14460	.10457	192.39753
10.330	-4.384	-.06448	.08231	-.12585	-.03238	-.00806	.01541	-.03523	-.11918	.09169	192.32905
10.330	-2.313	-.08517	.07426	-.09976	-.03505	-.01195	.02074	-.04760	-.09668	.07823	192.14842
10.330	-.244	-.09057	.06978	-.07519	-.03254	-.01215	.02034	-.04436	-.07490	.07010	191.92118
10.330	1.839	-.08359	.06737	-.04786	-.02755	-.01070	.01738	-.03748	-.05000	.06580	192.18648
10.330	4.097	-.07442	.06493	-.01358	-.02218	-.00902	.01411	-.03074	-.01818	.06379	191.89985
10.330	5.960	-.05917	.06216	.02018	-.01853	-.00694	.01037	-.02366	.01362	.06392	192.08498
10.330	7.973	-.04556	.05988	.05149	-.01555	-.00521	.00701	-.01694	.05259	.06782	191.67864
10.330	9.987	-.03559	.05834	.10884	-.01333	-.00397	.00460	-.01276	.09707	.07633	191.92542
10.330	14.973	-.03014	.05708	.25107	-.01229	-.00326	.00354	-.01242	.22779	.12001	192.05789
10.330	20.326	-.03299	.05875	.43838	-.01071	-.00369	.00404	-.01638	.39068	.20737	192.07147
10.330	25.477	-.03811	.05960	.64880	-.01332	-.00428	.00435	-.01912	.56008	.33288	191.94727
10.330	30.551	-.04146	.05920	.87852	-.02195	-.00459	.00403	-.02031	.72646	.49755	191.72085
10.330	35.668	-.04195	.05862	1.12300	-.03990	-.00486	.00378	-.02188	.87815	.70243	192.04500
10.330	GRADIENT	-.00083	-.00197	.01310	.00133	-.00003	-.00029	.00092	.01179	-.00322	-.03894

OIN52 LARC CFHT 118 (MA-22)

(RJA188) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 166/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.286	-.12501	.08498	-.19807	-.03673	-.02071	.03788	-.08171	-.18376	.11264	385.00742
10.330	-6.351	-.12080	.07972	-.17290	-.03219	-.02216	.03692	-.09137	-.16302	.09838	383.88381
10.330	-4.131	-.12860	.07334	-.14017	-.03691	-.01998	.03456	-.07882	-.13452	.08325	383.81380
10.330	-2.332	-.12126	.07019	-.11412	-.03682	-.01768	.03011	-.06717	-.11117	.07478	384.34763
10.330	-.254	-.10918	.06701	-.08658	-.03337	-.01530	.02517	-.05363	-.08628	.06739	384.24565
10.330	2.010	-.08982	.06476	-.05761	-.02825	-.01210	.01846	-.03955	-.05984	.06270	383.98240
10.330	3.716	-.07172	.06243	-.03065	-.02413	-.00925	.01378	-.02900	-.03464	.06031	383.72633
10.330	5.897	-.05494	.05892	.00548	-.02024	-.00637	.00933	-.01992	-.00061	.05917	383.80920
10.330	7.897	-.05508	.05688	.04321	-.01701	-.00604	.00844	-.01801	.03498	.06228	383.84778
10.330	10.117	-.05635	.05501	.09622	-.01397	-.00631	.00833	-.01782	.08506	.07105	383.66407
10.330	15.136	-.06148	.05378	.24120	-.01176	-.00672	.00815	-.01930	.21879	.11489	383.49192
10.330	20.267	-.06178	.05593	.42383	-.01252	-.00618	.00863	-.02475	.37822	.19928	383.52182
10.330	25.404	-.06642	.05586	.62885	-.01239	-.00647	.00966	-.03144	.54407	.32023	382.90959
10.330	30.512	-.07331	.05554	.86535	-.02301	-.00723	.00918	-.03052	.71732	.48721	382.88797
10.330	35.445	-.07587	.05547	1.10452	-.03938	-.00753	.00884	-.03185	.86765	.68573	383.42030
	GRADIENT	.00725	-.00136	.01373	.00171	.00135	-.00266	.00635	.01251	-.00289	-.02818

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MA22 - FORCE SOURCE DATA TABULATION

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01N82 LARC CFHT 118 (MA-22)

(RJA167) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 142.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 167/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.516	-.03454	.09576	-.18246	-.04408	-.00303	.00772	-.02124	-.16626	.12173	143.98947
10.330	-6.153	-.04802	.08822	-.14921	-.03670	-.00563	.01141	-.02808	-.13890	.10371	144.07911
10.330	-4.428	-.05069	.08382	-.12388	-.03420	-.00629	.01200	-.02895	-.11704	.09313	143.98802
10.330	-2.313	-.06372	.07458	-.09364	-.03469	-.00891	.01540	-.03897	-.09056	.07830	144.07445
10.330	-.240	-.07522	.06860	-.06650	-.03327	-.00985	.01658	-.03739	-.06622	.06887	143.83310
10.330	1.822	-.07954	.06681	-.04216	-.02757	-.01008	.01638	-.03625	-.04426	.06544	143.87342
10.330	4.054	-.07582	.06504	-.00793	-.02289	-.00917	.01452	-.03208	-.01251	.06432	143.87987
10.330	5.946	-.06661	.06217	.02318	-.01925	-.00763	.01161	-.02640	.01662	.06424	143.90894
10.330	7.944	-.05221	.06012	.06453	-.01593	-.00610	.00847	-.02069	.05560	.06846	143.61493
10.330	9.966	-.03883	.05641	.10718	-.01169	-.00419	.00559	-.01539	.09580	.07411	143.78835
10.330	15.263	-.02792	.05758	.26293	-.01208	-.00304	.00326	-.01275	.23849	.12477	143.68003
10.330	20.389	-.03065	.05901	.44287	-.01034	-.00357	.00355	-.01560	.39457	.20960	143.68204
10.330	25.367	-.03807	.05969	.64545	-.01258	-.00422	.00395	-.01832	.55765	.33045	143.78488
10.330	30.372	-.03764	.05926	.87379	-.02193	-.00436	.00358	-.01929	.72391	.49293	143.49594
10.330	35.675	-.04169	.05852	1.12596	-.04001	-.00469	.00327	-.02098	.88053	.70419	143.66553
	GRADIENT	-.00311	-.00214	.01344	.00141	-.00033	.00028	-.00016	.01211	-.00333	-.01964

01N82 LARC CFMT 118 (MA-22)

(RJA168) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 285.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 168/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.344	-.10247	.08717	-.18990	-.03978	-.01596	.02991	-.06581	-.17524	.11381	287.31819
10.330	-6.360	-.11794	.08213	-.16027	-.03290	-.01843	.03268	-.07083	-.15018	.09938	287.20499
10.330	-4.189	-.12061	.07451	-.13388	-.03586	-.01927	.03254	-.07517	-.12808	.08409	287.01205
10.330	-2.345	-.11912	.07056	-.10870	-.03713	-.01748	.02949	-.06549	-.10572	.07494	287.00547
10.330	-.292	-.11485	.06710	-.08120	-.03424	-.01561	.02601	-.05635	-.08085	.06751	286.47108
10.330	1.790	-.09991	.06527	-.05402	-.02948	-.01312	.02108	-.04439	-.03603	.06355	286.72766
10.330	3.892	-.07907	.06269	-.02175	-.02401	-.01033	.01574	-.03452	-.02535	.06107	286.67536
10.330	5.975	-.06358	.05916	.01513	-.01950	-.00725	.01086	-.02451	.00889	.06042	286.57067
10.330	7.787	-.04925	.05741	.04990	-.01696	-.00542	.00797	-.01857	.04166	.06364	286.56610
10.330	10.001	-.04977	.05569	.10090	-.01427	-.00554	.00760	-.01835	.08969	.07237	286.14978
10.330	15.118	-.05416	.05450	.24838	-.01245	-.00588	.00734	-.01911	.22557	.11739	286.71540
10.330	20.269	-.05509	.05676	.42783	-.01224	-.00569	.00783	-.02403	.38167	.20146	286.10789
10.330	25.353	-.06501	.05669	.63645	-.01338	-.00645	.00831	-.02726	.55088	.32376	286.28450
10.330	30.354	-.06924	.05644	.86429	-.02286	-.00694	.00807	-.02787	.71729	.48546	286.22723
10.330	35.672	-.07182	.05607	1.11992	-.04079	-.00719	.00779	-.03005	.87709	.69862	286.21504
	GRADIENT	.00508	-.00142	.01375	.00156	.00110	-.00207	.00505	.01252	-.00281	-.04642

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MA22 - FORCE SOURCE DATA TABULATION

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01N82 LARC CFHT 118 (MA-22)

(RJA169) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 169/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.376	-.18789	.07917	-.21362	-.03082	-.03384	.05898	-.12605	-.19981	.10944	575.38308
10.330	-6.435	-.17116	.07289	-.18400	-.03456	-.03014	.05142	-.11921	-.17467	.09305	574.82178
10.330	-4.314	-.16056	.06847	-.14766	-.03818	-.02590	.04436	-.10016	-.14209	.07939	574.36688
10.330	-2.323	-.14562	.06566	-.11917	-.03774	-.02210	.03711	-.08205	-.11641	.07044	573.57085
10.330	-.259	-.13152	.06231	-.09218	-.03410	-.01893	.03041	-.06454	-.09190	.06273	572.56190
10.330	1.794	-.10667	.05992	-.06721	-.03017	-.01411	.02218	-.04594	-.06905	.05779	572.94109
10.330	3.881	-.08771	.05791	-.03832	-.02584	-.01066	.01726	-.03552	-.04215	.05518	573.08609
10.330	6.016	-.09208	.05554	-.00482	-.02138	-.01051	.01714	-.03490	-.01061	.05473	572.49713
10.330	7.838	-.09669	.05356	.02868	-.01844	-.01043	.01695	-.03424	.02110	.05697	572.51669
10.330	10.009	-.09780	.05162	.07867	-.01638	-.01056	.01677	-.03385	.06850	.06451	572.22942
10.330	15.113	-.10708	.04986	.22753	-.01302	-.01097	.01631	-.03415	.20656	.10746	571.73960
10.330	20.210	-.11145	.05143	.41324	-.01432	-.01104	.01623	-.03870	.37002	.19103	570.77763
10.330	25.295	-.10698	.05146	.61190	-.01472	-.01003	.01672	-.04947	.53124	.30798	571.42638
10.330	30.465	-.12403	.05117	.85332	-.02458	-.01157	.01708	-.04800	.70957	.47674	571.78848
10.330	35.522	-.13148	.05089	1.10013	-.04057	-.01200	.01690	-.04935	.86582	.68062	569.94355
	GRADIENT	.00901	-.00131	.01320	.00158	.00188	-.00337	.00806	.01206	-.00297	-.15475

01N82 LARC CFHT 118 (MA-22)

(RJA170) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1075.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.8000 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	3.000			

RUN NO. 170/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/QA
10.330	-8.341	-.00816	.10222	-.17430	-.04421	.00044	-.00047	-.00447	-.15763	.12642	-.18619
10.330	-6.380	-.00688	.09511	-.14586	-.03838	.00022	-.00055	-.00403	-.13439	.11072	-.13962
10.330	-4.406	-.00649	.08941	-.11685	-.03519	.00026	-.00063	-.00383	-.10983	.09812	-.18615
10.330	-2.254	-.00402	.07961	-.08277	-.03423	.00019	-.00061	-.00382	-.07958	.08280	-.18609
10.330	-.225	-.00590	.07488	-.05347	-.03113	.00010	-.00060	-.00364	-.05317	.07509	-.18616
10.330	1.857	-.00651	.07134	-.02407	-.02657	.00004	-.00065	-.00311	-.02637	.07053	-.23269
10.330	3.779	-.00730	.06855	.00543	-.02261	-.00005	-.00064	-.00291	.00090	.06876	-.18616
10.330	5.934	-.00484	.06601	.04000	-.01861	-.00006	-.00064	-.00301	.03296	.06979	-.13960
10.330	7.962	-.00506	.06436	.07956	-.01495	-.00021	-.00072	-.00324	.06987	.07476	-.13960
10.330	10.001	-.00387	.05903	.11473	-.00973	.00037	-.00069	-.00430	.10273	.07806	-.23274
10.330	14.996	-.00408	.06078	.26311	-.00912	-.00057	-.00103	-.00404	.23842	.12679	-.23274
10.330	20.357	-.00321	.06207	.44862	-.00802	-.00097	-.00110	-.00603	.39901	.21425	-.23268
10.330	25.523	-.00656	.06249	.65848	-.01148	-.00144	-.00100	-.00804	.56729	.34012	-.13963
10.330	30.503	-.00974	.06178	.88042	-.02164	-.00189	-.00095	-.01011	.72721	.50012	-.23276
10.330	35.662	-.01168	.06131	1.12507	-.03795	-.00231	-.00095	-.01225	.87834	.70574	-.23278
	GRADIENT	-.00020	-.00245	.01481	.00160	-.00004	-.00000	.00612	.01339	-.00349	-.00234

01N82 LARC CFHT 118 (MA-22)

(RJA171) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6000 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	570.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	3.000			

RUN NO. 171/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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01N82 LARC CFHT 118 (MA-22)

(RJA172) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 570.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 172/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.510	-3.12761	.07964	-.23606	-.03712	-.03320	.05579	-.08366	-.21757	.12137	574.16604
10.330	-.297	-3.15072	.06215	-.08987	-.03146	-.01763	.03205	-.03990	-.08955	.06261	572.83910
10.330	9.993	-3.07190	.05192	.07971	-.01524	-.00830	.02164	-.02287	.06950	.06497	575.28043
10.330	20.146	-2.93037	.05157	.40956	-.01193	-.00607	.02084	-.02787	.35674	.18947	574.16222
10.330	35.552	-2.55899	.05167	1.09756	-.04233	-.00673	.02141	-.03612	.86292	.68020	575.42890
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N82 LARC CFHT 118 (MA-22)

(RJA173) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 570.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 173/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.459	2.75978	.07832	-.24198	-.03429	-.03230	.06127	-.16970	-.22374	.12095	574.47812
10.330	-.233	2.83220	.06253	-.08482	-.03075	-.02397	.03672	-.10492	-.08457	.06287	574.20254
10.330	10.013	2.85670	.05097	.09042	-.01763	-.01285	.01174	-.04566	.08018	.06592	573.95448
10.330	20.425	2.69193	.05121	.42642	-.01462	-.01391	.01273	-.05824	.38174	.19680	573.80287
10.330	35.584	2.27472	.05055	1.09566	-.04083	-.01701	.01311	-.06226	.86164	.67868	571.37830
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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01N82 LARC CFHT 118 (MA-22)

(RJA174) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	3.000			

RUN NO. 174/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N82 LARC CFHT 118 (MA-22)

(RJA175) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	.000
ELEVON	=	.000	BOFLAP	=	.000
NO.JET	=	3.000			

RUN NO. 175/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA178) (12 JAN 78)

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	.000
ELEVON	=	.000	BDCLAP	=	.000
NO.JET	=	3.000			

RUN NO. 176/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

(RJA177) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	.000	BOFLAP	=	.000
NO.JET	=	3.000			

RUN NO. 177/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N82 LARC CFHT 118 (HA-22)

(RJA178) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.8000 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/OA	=	.000
ELEVON	=	.000	BOFLAP	=	.000
NO.JET	=	3.000			

RUN NO. 178/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N82 LARC CFHT 118 (MA-22)

(RJA179) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/OA	=	.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	3.000			.

RUN NO. 179/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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O1N82 LARC CFHT 118 (MA-22)

(RJA180) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 142.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 180/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEI	CYN	CY	CL	CD	T/QA
10.330	-10.230	-.03143	.09879	-.20128	-.04799	-.00202	.00683	-.01850	-.18054	.13297	144.78407
10.330	-.194	-.07776	.06930	-.06478	-.03352	-.01008	.01701	-.03768	-.06454	.06952	144.55727
10.330	9.910	-.03997	.05724	.10865	-.01186	-.00404	.00575	-.01513	.09718	.07509	144.82107
10.330	20.080	-.03145	.05958	.43177	-.01008	-.00341	.00370	-.01504	.38507	.20420	144.59674
10.330	35.488	-.03925	.05986	1.11526	-.03904	-.00441	.00337	-.02056	.87334	.69619	144.35560
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

O1N82 LARC CFHT 118 (MA-22)

(RJA181) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 142.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 181/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEI	CYN	CY	CL	CD	T/QA
10.330	-10.403	-3.05154	.10103	-.20551	-.04691	-.00373	.00655	-.02441	-.18388	.13648	144.31502
10.330	-.212	-3.14345	.06964	-.06384	-.03288	-.00775	.01696	-.00829	-.06358	.06987	144.20824
10.330	10.196	-3.06735	.05750	.11939	-.01166	-.00137	.00995	.00125	.10733	.07772	144.56942
10.330	20.280	-2.91556	.06004	.44643	-.00842	.00006	.00873	.00244	.39795	.21105	144.40031
10.330	35.530	-2.51662	.05970	1.12042	-.04147	.00073	.00792	-.00597	.87711	.69969	144.44531
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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01NB2 LARC CFHT 118 (MA-22)

(RJA182) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	142.500
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	3.000			

RUN NO. 182/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N82 LARC CFHT 118 (MA-22)

(RJA183) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO.
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	285.000
ELEVON	=	.000	BDCLAP	=	.000
NO.JET	=	3.000			

RUN NO. 183/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA:BN) (12 JAN 78)

PARAMETRIC DATA

BETA = -3.000 T/QA = 285.000
ELEVON = .000 BOFLAP = .000
NO. JET = 3.000

[illegible]

(RJA195) (12 JAN 76)

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	265.000
ELEVON	=	.000	BDFLAP	=	.000
NOJET	=	3.000			

[illegible]

01N79 LARC CFHE 118 (MA-22)

(RJA188) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	47.500
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	1.000			

RUN NO. 186/ 0 RN/L = .96 GRADIENT INTERVAL = -3.00/ 5.00

[illegible]

01N79 LARC CFHT 118 (MA-22)

(RJA187) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	47.500
ELEVON	=	.000	BOFLAP	=	.000
NO.JET	=	1.000			

RUN NO. 187/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA188) (12 JAN 76)

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	47.500
ELEVON	=	.000	BDCLAP	=	.000
NOJET	=	1.000			

[illegible]

(RJA189) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/OA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NOJET	=	1.000			

[illegible]

01N79 LARC CFHT 118 (MA-22)

(RJA190) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.8000 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NOJET	=	1.000			

RUN NO. 190/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N79 LARC CFHT 118 (MA-22)

(RJA191) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NO.JET	=	1.000			

RUN NO. 191/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N79 LARC CFHT 118 (MA-22)

(RJA194) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 194/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-10.313	2.95929	.09178	-.23629	-.01778	-.00358	-.00387	-.02042	-.21605	.13260	193.67200
10.330	-.142	3.01151	.06277	-.08806	-.00778	-.00656	-.00684	-.01369	-.08791	.06299	193.53743
10.330	10.075	2.95039	.04825	.09568	.00798	-.00824	-.00783	-.00975	.08576	.06424	193.77391
10.330	20.548	2.77306	.04793	.42070	.01552	-.01225	-.00810	-.00982	.37711	.19254	193.43935
10.330	35.775	2.32925	.04804	1.09089	-.00875	-.01690	-.00817	-.01065	.85698	.67672	193.83594
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N79 LARC CFHT 118 (MA-22)

(RJA195) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 195/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.478	-.00750	.10336	-.17558	-.04483	.00043	-.00054	-.00395	-.15842	.12812	.00000
10.330	-6.360	-.00849	.09601	-.14587	-.03851	.00018	-.00060	-.00384	-.13434	.11158	.00000
10.330	-4.289	-.00825	.08951	-.11409	-.03520	.00024	-.00068	-.00347	-.10708	.09779	.00000
10.330	-2.235	-.00778	.08029	-.08242	-.03449	.00016	-.00063	-.00344	-.07923	.08345	.00000
10.330	-.231	-.00906	.07565	-.05304	-.03132	.00005	-.00063	-.00322	-.05273	.07586	.00000
10.330	1.826	-.00840	.07223	-.02427	-.02682	.00002	-.00067	-.00286	-.02656	.07142	.00000
10.330	3.860	-.00656	.06929	.00795	-.02274	-.00003	-.00069	-.00273	.00327	.06967	.00000
10.330	5.955	-.00715	.06674	.04169	-.01654	-.00006	-.00071	-.00262	.03454	.07070	.00000
10.330	7.972	-.00763	.06490	.08086	-.01489	-.00022	-.00075	-.00281	.07108	.07548	.00000
10.330	10.205	-.00567	.05917	.12079	-.00974	.00042	-.00069	-.00411	.10840	.07963	.00000
10.330	15.244	-.00603	.06144	.27193	-.00904	-.00057	-.00109	-.00337	.24621	.13078	.00000
10.330	20.416	-.00583	.06277	.45348	-.00787	-.00085	-.00112	-.00475	.40310	.21702	.00000
10.330	25.558	-.00873	.06336	.66512	-.01142	-.00133	-.00101	-.00659	.57270	.34410	.00000
10.330	30.487	-.00980	.06231	.88621	-.02168	-.00174	-.00092	-.00822	.73208	.50331	.00000
10.330	35.439	-.01221	.06219	1.12349	-.03786	-.00216	-.00094	-.01006	.87929	.70210	.00000
	GRADIENT	.00014	-.00238	.01485	.00160	-.00003	-.00000	.00010	.01343	-.00335	.00000

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 139

01N79 LARC CFHT 118 (MA-22)

(RJA196) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .00J T/QA = 47.500
 ELEVON = .000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 196/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.335	.00034	.09939	-.17965	-.03926	-.00029	-.00305	.00316	-.16334	.12438	49.08875
10.330	-6.300	-.00116	.09176	-.15009	-.03355	-.00063	-.00281	.00397	-.13911	.10768	49.08635
10.330	-4.227	-.00442	.08481	-.11873	-.03145	-.00075	-.00219	.00351	-.11215	.09333	49.14769
10.330	-2.211	-.00388	.07808	-.08582	-.03051	-.00073	-.00220	.00221	-.08275	.08133	49.04129
10.330	-.176	-.00685	.07356	-.05664	-.02701	-.00074	-.00196	.00152	-.05642	.07373	49.12371
10.330	1.988	-.00615	.07030	-.03030	-.02112	-.00158	-.00185	.00215	-.03272	.06921	49.09288
10.330	3.833	-.00525	.06693	-.00164	-.01746	-.00175	-.00183	.00216	-.00611	.06667	49.10711
10.330	5.985	-.00914	.06376	.03362	-.01279	-.00205	-.00178	.00218	.02679	.06691	49.12035
10.330	8.005	-.01008	.06176	.07332	-.00819	-.00239	-.00176	.00218	.06400	.07137	49.09625
10.330	10.080	-.01259	.05962	.11777	-.00479	-.00277	-.00163	.00216	.10552	.07931	49.14120
10.330	15.081	-.01922	.05690	.25168	-.00045	-.00393	-.00156	.00185	.22821	.12043	49.06250
10.330	20.224	-.02305	.05742	.42972	.00110	-.00419	-.00164	.00075	.38338	.20243	49.12545
10.330	25.426	-.02942	.05811	.64030	-.00222	-.00467	-.00165	-.00091	.55333	.32739	49.12572
10.330	30.542	-.03434	.05790	.86800	-.01214	-.00520	-.00158	-.00276	.71815	.49096	49.03913
10.330	35.663	-.04101	.05723	1.11147	-.02838	-.00577	-.00188	-.00422	.86965	.69451	49.15531
	GRADIENT	-.00020	-.00214	.01425	.00184	-.00014	.00005	-.00014	.01289	-.00323	-.00147

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 140

01N79 LARC CFHT 118 (MA-22)

(RJA197) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 197/ 0 RN/L = .93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.354	.00482	.09599	-.18853	-.03293	-.00194	-.00443	.00957	-.17259	.12238	97.08636
10.330	-6.259	.00529	.08730	-.15693	-.02826	-.00204	-.00389	.00870	-.14647	.10389	97.04943
10.330	-4.218	.00064	.08119	-.12625	-.02649	-.00221	-.00332	.00896	-.11994	.09025	97.09611
10.330	-2.228	-.00144	.07448	-.09564	-.02501	-.00222	-.00285	.00677	-.09268	.07814	97.10577
10.330	-.206	-.00333	.06930	-.07048	-.01978	-.00267	-.00280	.00582	-.07023	.06956	97.23144
10.330	1.890	-.00266	.06590	-.04055	-.01599	-.00288	-.00270	.00475	-.04270	.06453	97.19833
10.330	3.939	-.00660	.06245	-.00839	-.01184	-.00312	-.00250	.00412	-.01265	.06173	97.09858
10.330	6.015	-.00904	.05976	.02666	-.00744	-.00344	-.00240	.00427	.02025	.06222	97.12860
10.330	7.838	-.01136	.05780	.06097	-.00409	-.00365	-.00231	.00447	.05252	.06558	97.00123
10.330	10.079	-.01420	.05510	.10897	.00001	-.00377	-.00182	.00366	.09765	.07332	97.20359
10.330	15.115	-.02285	.05278	.24364	.00441	-.00563	-.00194	.00454	.22145	.11448	97.04427
10.330	20.195	-.03291	.05388	.41790	.00673	-.00644	-.00197	.00355	.37361	.19483	97.08361
10.330	25.366	-.04303	.05471	.62601	.00461	-.00722	-.00213	.00260	.54222	.31762	97.03033
10.330	30.456	-.04968	.05466	.85562	-.00502	-.00777	-.00219	.00114	.70985	.48082	96.99023
10.330	35.649	-.05799	.05390	1.10032	-.02180	-.00820	-.00241	-.00012	.86271	.68509	97.13318
	GRADIENT	-.00077	-.00225	.01423	.00188	-.00012	.00009	-.00057	.01295	-.00345	.00466

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 141

01N79 LARC CFHT 118 (MA-22)

(RJA198) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 198/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.323	.00837	.08695	-.21098	-.01762	-.00590	-.00471	.02157	-.19617	.11658	194.62548
10.330	-6.087	-.00001	.07777	-.17759	-.01349	-.00661	-.00319	.01756	-.16834	.09616	194.55388
10.330	-4.258	.00223	.07093	-.14766	-.01385	-.00643	-.00384	.01500	-.14199	.08170	194.21893
10.330	-2.207	.00443	.06577	-.11778	-.01205	-.00608	-.00435	.01194	-.11516	.07026	194.22390
10.330	-.207	.00151	.06159	-.09100	-.00955	-.00579	-.00414	.00873	-.09078	.06192	194.34262
10.330	2.076	-.00289	.05763	-.05684	-.00431	-.00591	-.00391	.00808	-.05889	.05553	194.40667
10.330	3.892	-.00376	.05496	-.02819	-.00031	-.00595	-.00398	.00815	-.03186	.05292	194.36550
10.330	5.993	-.00673	.05224	.00762	.00395	-.00630	-.00382	.00833	.00213	.05275	194.23076
10.330	7.988	-.01170	.05003	.04733	.00675	-.00653	-.00364	.00873	.03992	.05612	194.37275
10.330	10.019	-.01713	.04786	.09379	.00885	-.00696	-.00349	.00906	.08403	.06344	194.16443
10.330	15.126	-.03074	.04616	.23186	.01356	-.00841	-.00316	.00936	.21178	.10507	194.18700
10.330	20.181	-.04411	.04693	.40236	.01689	-.00953	-.00328	.00921	.36147	.18286	194.30586
10.330	25.419	-.05957	.04830	.61097	.01637	-.01089	-.00345	.00931	.53109	.30588	194.02532
10.330	30.577	-.07477	.04822	.83936	.00712	-.01174	-.00354	.00963	.69812	.46849	194.25060
10.330	35.704	-.08680	.04762	1.08109	-.00787	-.01236	-.00394	.00617	.85011	.66959	193.85566
	GRADIENT	-.00094	-.00195	.01457	.00169	.00005	.00001	-.00085	.01343	-.00352	.02332

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MA22 - FORCE SOURCE DATA TABULATION

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01N:2 LARC CFHT 118 (MA-22)

(RJA199) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 199/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.411	.00432	.09645	-.18806	-.03384	-.00149	-.00441	.00910	-.17193	.12292	95.94827
10.330	-6.122	.00313	.08705	-.15285	-.02836	-.00157	-.00391	.00744	-.14269	.10286	95.82357
10.330	-4.243	-.00129	.08118	-.12408	-.02720	-.00183	-.00343	.00768	-.11774	.09014	96.07540
10.330	-2.253	-.00105	.07518	-.09477	-.02540	-.00196	-.00326	.00663	-.09175	.07885	95.89482
10.330	-.019	-.00347	.06956	-.06631	-.01996	-.00243	-.00282	.00514	-.06629	.06958	95.82333
10.330	1.794	-.00278	.06653	-.03952	-.01660	-.00259	-.00270	.00431	-.04159	.06526	95.83664
10.330	3.863	-.00564	.06293	-.00752	-.01230	-.00285	-.00261	.00400	-.01174	.06228	95.86923
10.330	5.989	-.00881	.06016	.02666	-.00790	-.00312	-.00261	.00441	.02023	.06261	95.71013
10.330	7.950	-.00833	.05801	.06465	-.00403	-.00334	-.00257	.00446	.05600	.06639	95.81412
10.330	10.109	-.01405	.05560	.11104	.00020	-.00377	-.00226	.00420	.09956	.07423	95.84902
10.330	15.181	-.02273	.05308	.24981	.00330	-.00497	-.00225	.00451	.22719	.11664	95.69657
10.330	20.267	-.02931	.05440	.42534	.00540	-.00575	-.00234	.00339	.38016	.19837	95.75846
10.330	25.247	-.03666	.05499	.62602	.00284	-.00654	-.00243	.00241	.54277	.31675	95.82967
10.330	30.578	-.04479	.05491	.86690	-.00731	-.00711	-.00253	.00111	.71841	.48828	95.74082
10.330	35.481	-.05174	.05411	1.09761	-.02280	-.00767	-.00285	-.00008	.86238	.68115	95.76504
10.330	GRADIENT	-.00052	-.00223	.01423	.00191	-.00013	.00011	-.00048	.01293	-.00343	-.02346

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MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(RJA200) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 200/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.107	.01635	.08774	-.19975	-.01984	-.00459	-.00619	.01630	-.18538	.11503	191.87959
10.330	-6.227	.00265	.07973	-.17453	-.01580	-.00477	-.00437	.01794	-.16485	.09819	191.49147
10.330	-4.223	.00302	.07276	-.14225	-.01511	-.00493	-.00424	.01493	-.13650	.08304	191.57622
10.330	-2.199	.00436	.06678	-.10919	-.01465	-.00437	-.00477	.01243	-.10655	.07092	191.57065
10.330	-.190	.00272	.06235	-.08316	-.01088	-.00436	-.00437	.00959	-.08295	.06263	191.53959
10.330	2.085	.00050	.05829	-.04989	-.00654	-.00436	-.00435	.00846	-.05197	.05644	191.52218
10.330	3.892	-.00241	.05553	-.02212	-.00164	-.00477	-.00419	.00839	-.02584	.05390	191.58734
10.330	6.046	-.00560	.05296	.01545	.00271	-.00488	-.00405	.00844	.00978	.05429	191.67157
10.330	7.903	-.00882	.05064	.05198	.00500	-.00471	-.00378	.00854	.04452	.05731	191.57199
10.330	10.193	-.01402	.04817	.10284	.00769	-.00553	-.00362	.00874	.09269	.06561	191.15049
10.330	15.244	-.02455	.04621	.24083	.01072	-.00565	-.00341	.00935	.22021	.10790	190.96823
10.330	20.354	-.03590	.04703	.41402	.01460	-.00809	-.00366	.00927	.37181	.18810	191.46288
10.330	25.450	-.05075	.04859	.61705	.01427	-.00953	-.00394	.00895	.53629	.30904	191.57134
10.330	30.577	-.06278	.04855	.84814	.00449	-.01034	-.00407	.00781	.70551	.47324	191.38720
10.330	35.630	-.07367	.04782	1.08607	-.01153	-.01083	-.00439	.00657	.85489	.67156	191.48968
	GRADIENT	-.00072	-.00209	.01460	.00171	.00002	.00003	-.00083	.01344	-.00355	-.00145

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MA22 - FORCE SOURCE DATA TABULATION

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01M49 LARC CFHT 118 (MA-22)

(RJA201) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 201/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.271	.01742	.07213	-.24105	.00769	-.01107	-.00530	.02995	-.22817	.10605	385.17783
10.330	-6.277	.01515	.06237	-.20716	.00906	-.01140	-.00604	.02650	-.19910	.08465	385.11814
10.330	-4.175	.01921	.05667	-.17505	.00897	-.01165	-.00708	.02278	-.17046	.06927	384.43910
10.330	-2.152	.01708	.05200	-.14557	.00986	-.01089	-.00723	.01865	-.14352	.05743	382.42595
10.330	-.155	.01182	.04800	-.11741	.01254	-.01037	-.00696	.01712	-.11728	.04832	382.88822
10.330	2.101	.00596	.04459	-.08273	.01679	-.01006	-.00689	.01685	-.08431	.04153	383.09579
10.330	3.943	.00360	.04176	-.05201	.02052	-.00969	-.00696	.01697	-.05476	.03809	384.38232
10.330	6.034	-.00139	.03913	-.01454	.02395	-.00914	-.00688	.01712	-.01857	.03739	381.38935
10.330	8.023	-.00701	.03655	.02527	.02575	-.00918	-.00678	.01763	.01992	.03972	383.03089
10.330	10.072	-.01205	.03470	.07384	.02635	-.00926	-.00667	.01765	.06663	.04708	382.10148
10.330	15.140	-.02594	.03324	.21941	.02785	-.00993	-.00641	.01834	.20312	.08939	382.75813
10.330	20.277	-.04087	.03394	.39071	.03162	-.01118	-.00659	.01910	.35473	.16724	382.92740
10.330	25.280	-.05902	.03538	.58932	.03140	-.01262	-.00687	.01918	.51777	.28366	381.30118
10.330	30.408	-.07884	.03578	.81329	.02385	-.01387	-.00733	.01908	.68331	.44250	380.95233
10.330	35.691	-.09948	.03570	1.05844	.00949	-.01528	-.00794	.01839	.83881	.64650	382.15028
	GRADIENT	-.00207	-.00182	.01507	.00147	.00023	.00003	-.00065	.01418	-.00382	.02599

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(RJA202) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	.000	BOFLAP	=	.000
NOJET	=	2.000			

RUN NO. 202/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.487	-.01076	.10290	-.17535	-.04449	.00046	-.00049	-.00402	-.15824	.12765	.00000
10.330	-6.269	-.01046	.09502	-.14327	-.03822	.00022	-.00056	-.00395	-.13204	.11010	.00000
10.330	-4.249	-.01013	.08886	-.11316	-.03506	.00025	-.00062	-.00391	-.10627	.09700	.00000
10.330	-2.239	-.01140	.07983	-.08150	-.03420	.00013	-.00061	-.00363	-.07832	.08296	.00000
10.330	-.225	-.00912	.07499	-.05282	-.03125	.00006	-.00058	-.00351	-.05252	.07520	.00000
10.330	2.000	-.01028	.07164	-.02113	-.02621	.00001	-.00065	-.00296	-.02362	.07086	.00000
10.330	4.094	-.00846	.06841	.01037	-.02221	-.00005	-.00066	-.00286	.00546	.06898	.00000
10.330	5.970	-.00983	.06647	.04097	-.01849	-.00009	-.00064	-.00276	.03384	.07037	.00000
10.330	7.925	-.00838	.06449	.07966	-.01521	-.00024	-.00070	-.00300	.07001	.07486	.00000
10.330	10.083	-.00588	.05901	.11768	-.00987	.00038	-.00065	-.00420	.10553	.07871	.00000
10.330	15.055	-.00728	.06126	.26565	-.00944	-.00066	-.00098	-.00355	.24062	.12816	.00000
10.330	20.125	-.00874	.06248	.44117	-.00825	-.00095	-.00103	-.00502	.39273	.21047	.00000
10.330	25.420	-.01169	.06331	.65732	-.01185	-.00157	-.00084	-.00685	.56651	.33934	.00000
10.330	30.549	-.01452	.06260	.88472	-.02213	-.00197	-.00070	-.00870	.73010	.50359	.00000
10.330	35.639	-.01728	.06221	1.12583	-.03857	-.00237	-.00068	-.01087	.87871	.70656	.00000
	GRADIENT	.00021	-.00234	.01469	.00162	-.00003	-.00001	.00013	.01329	-.00324	.00000

(RJA203) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	95.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 203/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N49 LARC CFHT 118 (MA-22)

(RJA204) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. X0
LREF = 474.8000 INCHES   YMRP = .0000 IN. Y0
BREF = 936.8000 INCHES   ZMRP = 375.0000 IN. Z0
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	95.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 204/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N49 LARC CFHT 118 (MA-22)

(RJA205) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6000 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	95.000
ELEVON	=	.000	80FLAP	=	.000
NO.JET	=	2.000			

RUN NO. 205/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA206) (12 JAN 78)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	190.000
ELEVON	=	.000	BOFLAP	=	.000
NO.JET	=	2.000			

[illegible]

(RJA207) (12 JAN 76)

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	190.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	2.000			

[illegible]

01N49 LARC CFHT 118 (MA-22)

(RJA208) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	Y/QA	=	190.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 208/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N49 LARC CFHT 118 (MA-22)

(RJA209) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	380.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 209/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(RJA210) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 210/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-10.282	-2.94444	.07667	-.26499	.00493	-.01337	-.00544	.06885	-.24704	.12274	383.57418
10.330	-.070	-3.01284	.04887	-.10859	.01469	-.00958	-.00512	.04562	-.10853	.04900	383.50643
10.330	10.027	-2.99907	.03492	.07822	.02956	-.00811	-.00189	.03786	.07094	.04801	383.71522
10.330	20.351	-2.88339	.03404	.40087	.03339	-.00874	-.00107	.03794	.36400	.17133	383.88690
10.330	35.831	-2.53019	.03548	1.06129	.00874	-.01088	-.00338	.03440	.83965	.65005	384.24320
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N49 LARC CFHT 118 (MA-22)

(RJA211) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 211/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-10.256	2.92818	.07665	-.25934	.00797	-.00758	-.00684	-.00707	-.24154	.12160	383.01526
10.330	-.142	2.97112	.04827	-.11283	.01218	-.00968	-.00943	-.00563	-.11271	.04855	383.58153
10.330	10.149	2.90816	.03455	.07697	.02407	-.01008	-.01079	.00040	.06968	.04757	383.67747
10.330	20.405	2.73281	.03435	.39423	.03017	-.01393	-.01124	.00062	.35752	.16965	383.31799
10.330	35.711	2.28269	.03619	1.05054	.00927	-.01948	-.01212	.00218	.83188	.64259	383.23108
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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01N83 LARC CFHT 118 (MA-22)

(RJA212) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES    YMRP = .0000 IN. YO
BREF = 936.6800 INCHES    ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	142.500
ELEVON	=	.000	BOFLAP	=	.000
NO.JET	=	3.000			

RUN NO. 212/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N83 LARC CFHT 118 (MA-22)

(RJA213) (12 JAN 76)

REFERENCE DATA

```
SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100
```

PARAMETRIC DATA

```

BETA      =      -3.000      T/OA      =      142.500
ELEVON    =           .000      BOFLAP   =           .000
NOJET     =           3.000

```

RUN NO. 213/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA214) (12 JAN 78)

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	142.500
ELEVON	=	.000	BOFLAP	=	.000
NO.JET	=	3.000			

[illegible]

(RJA215) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	3.000			

[illegible]

01N83 LARC CFHT 11B (MA-22)

(RJA216) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

BETA	=	-3.000	T/QA	=	.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	3.000			

RUN NO. 216/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N83 LARC CFHT 118 (MA-22)

(RJA217) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

BETA	=	3.000	T/QA	=	.000
ELEVON	=	.000	BDCLAP	=	.000
NO.JET	=	3.000			

RUN NO. 217/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA218) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 218/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/QA
10.330	-10.379	-.00631	.10822	-.19996	-.05058	.00063	-.00035	-.00362	-.17719	.14248	.00000
10.330	-.229	-.00465	.07633	-.05467	-.03226	.00009	-.00044	-.00222	-.05436	.07655	.00000
10.330	10.041	-.00156	.06000	.12000	-.01002	.00039	-.00048	-.00313	.10770	.08001	.00000
10.330	20.248	-.00410	.06333	.45227	-.00764	-.00095	-.00085	-.00404	.40241	.21595	.00000
10.330	35.616	-.01196	.06322	1.13837	-.03955	-.00228	-.00050	-.01014	.88861	.71433	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N83 LARC CFHT 118 (MA-22)

(RJA219) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 219/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/QA
10.330	-10.481	-3.03609	.11122	-.20432	-.04908	-.00199	.00102	.03805	-.18068	.14653	.00000
10.330	-.099	-3.09877	.07802	-.05070	-.03084	-.00036	.00315	.02773	-.05057	.07811	.00000
10.330	10.216	-3.04893	.06145	.13303	-.01021	.00128	.00451	.01727	.12003	.08407	.00000
10.330	20.341	-2.89423	.06369	.46480	-.00712	.00223	.00424	.01484	.41358	.22129	.00000
10.330	35.648	-2.49004	.06310	1.14605	-.04261	.00283	.00376	.00601	.89451	.71920	.00000
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

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(RJA220) (12 JAN 78)

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	3.000			

[illegible]

(RJA221) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	285.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	3.000			

[illegible]

01N83 LARC CFHT 118 (MA-22)

(RJA222) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	295.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	3.000			

RUN NO. 222/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N83 LARC CFHT 118 (MA-22)

(RJA223) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	285.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	3.000			

RUN NO. 223/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N83 LARC CFHT 118 (MA-22)

(RJA224) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	570.000
ELEVON	*	.000	BDFLAP	*	.000
NO.JET	=	3.000			

RUN NO. 224/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N83 LARC CFHT 118 (MA-22)

(RJA225) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	570.000
ELEVON	=	.000	BDFLAP	=	.000
NOJET	=	3.000			

RUN NO. 225/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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01N83 LARC CFHT 118 (MA-22)

(RJA226) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 570.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 226/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/QA
10.330	-10.204	2.97809	.07280	-.27964	.02049	-.00923	-.01041	.00091	-.26232	.12119	572.48662
10.330	-.117	3.01946	.04377	-.12328	.02341	-.01105	-.01294	.00085	-.12319	.04402	572.19280
10.330	10.191	2.95006	.02956	.07286	.03542	-.01123	-.01449	.00806	.06648	.04198	571.43243
10.330	20.377	2.76596	.03002	.39314	.04492	-.01603	-.01490	.00869	.35808	.16503	570.69997
10.330	35.928	2.29301	.03164	1.08272	.02154	-.02223	-.01563	.00953	.85818	.66093	570.42092
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N83 LARC CFHT 118 (MA-22)

(RJA227) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 227/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/QA
10.330	-8.333	-.00984	.10565	-.17879	-.04572	.00040	-.00058	-.00359	-.16160	.13045	.00000
10.330	-6.199	-.00897	.09781	-.14621	-.03972	.00023	-.00056	-.00353	-.13479	.11302	.00000
10.330	-4.326	-.01041	.09202	-.11814	-.03669	.00028	-.00064	-.00331	-.11086	.10067	.00000
10.330	-2.281	-.01036	.08244	-.08491	-.03592	.00018	-.00061	-.00341	-.08156	.08575	.00000
10.330	-.158	-.00990	.07720	-.05239	-.03231	.00011	-.00061	-.00302	-.05217	.07735	.00000
10.330	2.061	-.00988	.07346	-.02214	-.02736	.00003	-.00065	-.00262	-.02477	.07261	.00000
10.330	3.852	-.00876	.07077	.00671	-.02329	-.00001	-.00064	-.00248	.00194	.07106	.00000
10.330	5.957	-.01169	.06801	.04098	-.01895	-.00005	-.00063	-.00271	.03370	.07189	.00000
10.330	8.085	-.00894	.06636	.08586	-.01491	-.00020	-.00072	-.00279	.07568	.07778	.00000
10.330	10.153	-.00767	.06030	.12067	-.00984	.00042	-.00065	-.00406	.10815	.08063	.00000
10.330	15.098	-.00702	.06264	.27416	-.00892	.00053	-.00105	-.00364	.24838	.13189	.00000
10.330	20.128	-.00892	.06392	.45479	-.00725	-.00082	-.00101	-.00493	.40502	.21651	.00000
10.330	25.419	-.00844	.06432	.67455	-.01139	-.00118	-.00093	-.00709	.58165	.34763	.00000
10.330	30.350	-.01120	.06359	.90457	-.02216	-.00160	-.00084	-.00918	.74847	.51193	.00000
10.330	35.659	-.01506	.06318	1.16101	-.04067	-.00211	-.00077	-.01145	.90648	.72816	.00000
	GRADIENT	.00018	-.00249	.01509	.00171	-.00004	-.00000	.00012	.01354	-.00351	.00000

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(RJA228) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 228/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.271	.03000	.06732	-.25923	.01926	-.01288	-.00899	.03863	-.24685	.10391	574.10927
10.330	-6.180	.02968	.05750	-.22199	.02096	-.01305	-.00959	.03500	-.21451	.08107	574.44086
10.330	-3.982	.03276	.05168	-.18766	.02040	-.01349	-.01076	.03054	-.18362	.06459	573.90231
10.330	-2.119	.02951	.04698	-.15871	.02162	-.01263	-.01049	.02595	-.15687	.05282	573.39661
10.330	-.128	.02393	.04295	-.13199	.02421	-.01194	-.01014	.02485	-.13190	.04325	573.66928
10.330	1.934	.01717	.03967	-.10241	.02838	-.01162	-.01020	.02459	-.10369	.03619	572.64932
10.330	4.008	.01117	.03638	-.06600	.03322	-.01124	-.01018	.02476	-.06838	.03168	573.05906
10.330	6.059	.00640	.03350	-.02909	.03675	-.01067	-.01017	.02500	-.03247	.03025	572.36536
10.330	8.047	.00098	.03116	.01360	.03815	-.01060	-.01009	.02529	.00910	.03276	570.05737
10.330	10.277	-.00509	.02902	.06719	.03881	-.01074	-.01004	.02538	.06094	.04055	570.27650
10.330	15.202	-.01851	.02813	.21370	.04121	-.01131	-.00995	.02630	.19885	.08318	571.28812
10.330	20.288	-.04091	.02947	.39129	.04690	-.01326	-.01002	.02731	.35679	.16332	570.82485
10.330	25.390	-.06206	.03090	.59174	.04772	-.01507	-.01062	.02757	.52133	.28164	570.56635
10.330	30.560	-.08508	.03106	.82726	.03975	-.01644	-.01109	.02766	.69655	.44738	569.51214
10.330	35.612	-.10762	.03041	1.06939	.02375	-.01761	-.01137	.02621	.85168	.64742	570.38853
	GRADIENT	-.00278	-.00189	.01496	.00162	.00027	.00007	-.00063	.01417	-.00410	-.12115

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OIN83 LARC CFHT 118 (MA-22)

(RJA229) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 285.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 229/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.176	.01445	.08553	-.21528	-.01372	-.00571	-.00677	.02494	-.20093	.11528	286.84410
10.330	-6.266	.00870	.07819	-.18581	-.01002	-.00608	-.00568	.02246	-.17616	.09801	286.79379
10.330	-4.066	.00707	.07005	-.15002	-.01036	-.00624	-.00582	.01668	-.14468	.08051	286.33759
10.330	-2.170	.01057	.06485	-.11879	-.00895	-.00570	-.00643	.01573	-.11624	.06931	285.23876
10.330	-.183	.00722	.06024	-.09195	-.00575	-.00551	-.00598	.01233	-.09175	.06054	285.73429
10.330	1.915	.00540	.05635	-.06121	-.00162	-.00539	-.00593	.01179	-.06306	.05427	286.23902
10.330	4.129	.00005	.05294	-.02743	.00412	-.00569	-.00580	.01153	-.03117	.05082	286.07343
10.330	5.942	-.00167	.05042	.00506	.00788	-.00539	-.00559	.01136	-.00019	.05067	286.24351
10.330	8.042	-.00636	.04792	.05000	.01069	-.00555	-.00542	.01179	.04280	.05444	285.44417
10.330	10.049	-.01046	.04548	.09395	.01280	-.00619	-.00534	.01230	.08458	.06117	285.90534
10.330	15.345	-.02487	.04400	.24123	.01941	-.00804	-.00520	.01290	.22098	.10626	285.86274
10.330	20.442	-.04019	.04526	.41946	.02453	-.00978	-.00537	.01356	.37724	.18892	285.31126
10.330	25.637	-.05398	.04633	.63351	.02255	-.01103	-.00577	.01309	.55109	.31588	285.44733
10.330	30.552	-.06677	.04629	.86025	.01242	-.01171	-.00601	.01217	.71729	.47715	285.70977
10.330	35.583	-.07937	.04515	1.10468	-.00508	-.01214	-.00639	.01067	.87214	.67952	285.25830
	GRADIENT	-.00096	-.00208	.01478	.00178	.00007	.00003	-.00088	.01369	-.00361	-.02465

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01NB3 LARC CFHT 118 (MA-22)

(RJA230) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	142.500
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	3.000			

RUN NO. 230/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.311	.00855	.09666	-.19428	-.03151	-.00214	-.00549	.01247	-.17827	.12372	143.75233
10.330	-6.392	.00608	.08837	-.16428	-.02690	-.00203	-.00503	.01069	-.15342	.10611	143.58702
10.330	-4.295	.00014	.08120	-.13093	-.02563	-.00244	-.00419	.01097	-.12448	.09079	143.53760
10.330	-2.279	-.00303	.07462	-.10001	-.02413	-.00257	-.00396	.00944	-.09697	.07854	144.15890
10.330	-.148	-.00329	.06945	-.07291	-.01792	-.00289	-.00373	.00784	-.07273	.06964	143.83666
10.330	1.938	-.00224	.06554	-.04380	-.01393	-.00316	-.00361	.00676	-.04599	.06402	143.72750
10.330	4.137	-.00510	.06179	-.00925	-.00860	-.00348	-.00349	.00641	-.01369	.06096	143.66696
10.330	5.969	-.00878	.05929	.02142	-.00448	-.00351	-.00342	.00681	.01514	.06119	143.52555
10.330	8.076	-.01076	.05695	.06550	-.00020	-.00371	-.00348	.00692	.05685	.06559	143.41899
10.330	10.085	-.01182	.05463	.10970	.00242	-.00405	-.00313	.00674	.09844	.07300	143.75448
10.330	15.000	-.02419	.05205	.24347	.00815	-.00572	-.00300	.00643	.22170	.11329	143.57266
10.330	20.259	-.03301	.05309	.42990	.01087	-.00863	-.00309	.00613	.38492	.19867	143.34373
10.330	25.392	-.04062	.05402	.64381	.00754	-.00732	-.00347	.00492	.55845	.32488	143.46083
10.330	30.543	-.04722	.05360	.88254	-.00360	-.00784	-.00358	.00327	.73285	.49465	143.46138
10.330	35.620	-.05733	.05249	1.12875	-.02114	-.00838	-.00389	.00165	.88699	.70005	143.57222
	GRADIENT	-.00046	-.00227	.01421	.00211	-.00013	-.00008	-.00056	.01293	-.00351	-.00892

01N79N78 LARC CFHT 118 (MA-22)

(RJA231) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	95.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 231/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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- (RJA232) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	95.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 232/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N79N78 LARC CFHT 118 (MA-22)

(RJA233) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	95.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 233/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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01N79N78 LARC CFHT 118 (MA-22)

(RJA234) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES    YMRP = .0000 IN. YO
BREF = 936.6800 INCHES    ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	190.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 234/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N79N78 LARC CFHT 118 (MA-22)

(RJA235) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	190.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 235/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA238) (12 JAN 78)

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	190.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 236/ D RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

(RJA237) (12 JAN 76)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	380.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 237/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N79N78 LARC CFHT 118 (MA-22)

(RJA238) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6000 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	-3.000	T/QA	=	380.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 238/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

01N79N78 LARC CFHT 118 (MA-22)

(RJA239) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	3.000	T/QA	=	380.000
ELEVON	=	.000	BDFLAP	=	.000
NO. JET	=	2.000			

RUN NO. 239/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA240) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 240/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.316	-.01304	.10577	-.17847	-.04614	.00043	-.00056	-.00443	-.16130	.13047	.00000
10.330	-6.431	-.01247	.09882	-.15018	-.04066	.00024	-.00059	-.00439	-.13817	.11501	.00000
10.330	-4.334	-.01235	.09209	-.11843	-.03698	.00031	-.00068	-.00380	-.11113	.10078	.00000
10.330	-2.296	-.01152	.08256	-.08580	-.03563	.00019	-.00066	-.00392	-.08242	.08593	.00000
10.330	-.194	-.01170	.07739	-.05431	-.03205	.00009	-.00063	-.00377	-.05405	.07758	.00000
10.330	1.843	-.01024	.07394	-.02354	-.02828	.00004	-.00070	-.00345	-.02591	.07315	.00000
10.330	3.902	-.01116	.07094	.01020	-.02459	-.00003	-.00068	-.00310	.00535	.07147	.00000
10.330	5.995	-.01418	.06883	.04565	-.02123	-.00013	-.00069	-.00316	.03822	.07322	.00000
10.330	7.992	-.00951	.06693	.08587	-.01850	-.00020	-.00074	-.00338	.07573	.07822	.00000
10.330	10.117	-.00952	.06146	.12687	-.01449	.00030	-.00071	-.00468	.11410	.08279	.00000
10.330	15.075	-.00905	.06435	.28299	-.01791	-.00057	-.00103	-.00439	.25651	.13574	.00000
10.330	20.322	-.00805	.06699	.47737	-.02276	-.00092	-.00099	-.00607	.42439	.22861	.00000
10.330	25.309	-.01051	.06907	.69289	-.03287	-.00129	-.00090	-.00818	.59685	.35865	.00000
10.330	30.428	-.01117	.07029	.93608	-.05035	-.00167	-.00078	-.01015	.77155	.53469	.00000
10.330	35.574	-.01545	.07271	1.19508	-.07452	-.00210	-.00068	-.01270	.92973	.75438	.00000
	GRADIENT	.00018	-.00247	.01550	.00156	-.00004	-.00000	.00009	.01404	-.00346	.00000

OIN79N78 LARC CFHT 118 (MA-22)

(1RJA241) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 241/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.260	-.00886	.09990	-.18442	-.04055	-.00033	-.00077	-.00328	-.16818	.12538	95.67407
10.330	-6.204	-.01228	.09194	-.15434	-.03380	-.00118	-.00007	-.00229	-.14350	.10808	95.75262
10.330	-4.318	-.01500	.08588	-.12578	-.03157	-.00121	.00018	-.00279	-.11896	.09511	95.89330
10.330	-2.304	-.02054	.07766	-.09664	-.03231	-.00260	.00218	-.01030	-.09344	.08148	95.82658
10.330	-.176	-.02626	.07278	-.06428	-.03024	-.00323	.00323	-.01014	-.06406	.07298	95.66907
10.330	1.981	-.03290	.06887	-.03802	-.02531	-.00465	.00427	-.01151	-.04038	.06752	95.62871
10.330	3.850	-.03455	.06638	-.00948	-.02053	-.00503	.00428	-.01117	-.01391	.06560	95.66043
10.330	5.948	-.03610	.06361	.02517	-.01530	-.00526	.00393	-.01046	.01845	.06587	95.90068
10.330	8.013	-.03703	.06123	.06919	-.01204	-.00523	.00294	-.00796	.05998	.07028	95.74263
10.330	9.973	-.03671	.05958	.11416	-.01053	-.00546	.00213	-.00572	.10212	.07845	95.61114
10.330	15.113	-.02821	.05846	.26606	-.01000	-.00473	-.00041	-.00157	.24161	.12581	95.74018
10.330	20.359	-.03305	.06044	.45855	-.01301	-.00503	-.00001	-.00347	.40888	.21620	95.67117
10.330	25.318	-.03971	.06271	.67228	-.02342	-.00564	.00046	-.00630	.58089	.34418	95.57431
10.330	30.374	-.04184	.06448	.91293	-.03954	-.00560	.00015	-.00825	.75502	.51725	95.49842
10.330	35.560	-.04393	.06596	1.17152	-.06380	-.00584	-.00068	-.00889	.91468	.73496	95.59540
	GRADIENT	-.00250	-.00232	.01412	.00141	-.00047	.00050	-.00087	.01276	-.00355	-.03244

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(RJA242) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 242/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.500	-.01310	.09506	-.19743	-.03434	-.00304	.00038	-.00103	-.18121	.12320	191.14304
10.330	-8.215	-.02117	.08607	-.16365	-.02816	-.00422	.00288	-.00592	-.15337	.10328	191.34554
10.330	-4.520	-.02980	.07996	-.13609	-.02610	-.00505	.00414	-.00646	-.12968	.08999	191.28853
10.330	-2.092	-.04443	.07216	-.11003	-.02819	-.00833	.00848	-.02020	-.10732	.07613	191.20623
10.330	-.170	-.04762	.06834	-.08887	-.02387	-.00879	.00889	-.02086	-.08867	.06860	190.94813
10.330	1.883	-.04728	.06525	-.06169	-.01899	-.00852	.00750	-.01632	-.06380	.06319	190.97242
10.330	3.939	-.04656	.06200	-.02780	-.01401	-.00794	.00596	-.01234	-.03199	.05994	191.05399
10.330	5.949	-.04159	.05878	.01066	-.00970	-.00724	.00431	-.00920	.00451	.05957	190.88504
10.330	7.931	-.03708	.05614	.05278	-.00853	-.00623	.00278	-.00555	.04453	.06288	190.53627
10.330	10.062	-.03312	.05450	.10556	-.00702	-.00606	.00144	-.00258	.09441	.07210	190.63070
10.330	15.079	-.03655	.05367	.25031	-.00589	-.00683	-.00003	.00030	.22772	.11694	190.79749
10.330	20.336	-.04736	.05637	.44372	-.00629	-.00753	.00006	-.00134	.39648	.20706	190.58613
10.330	25.307	-.05254	.05870	.65726	-.01666	-.00603	.00017	-.00333	.56909	.33402	190.96406
10.330	30.364	-.06056	.06034	.89956	-.03293	-.00825	.00002	-.00507	.74567	.50679	190.64343
10.330	35.570	-.06726	.06214	1.15924	-.05687	-.00869	-.00014	-.00690	.90679	.72488	190.87752
GRADIENT		-.00180	-.00218	.01292	.00162	-.00030	.00014	-.00041	.01165	-.00358	-.03421

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(RJA243) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = .000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 243/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEB	CYN	CY	CL	CD	T/OA
10.330	-8.316	-.04781	.07952	-.22508	-.01879	-.01433	.01324	-.01928	-.21121	.11124	383.01589
10.330	-6.408	-.05220	.07398	-.19872	-.01166	-.01292	.01170	-.01364	-.18923	.09570	382.66458
10.330	-4.128	-.06885	.06740	-.16959	-.01178	-.01851	.01750	-.03744	-.16429	.07943	382.37091
10.330	-2.333	-.06858	.06304	-.14687	-.01213	-.01694	.01497	-.03242	-.14419	.06897	382.44732
10.330	-.212	-.06066	.05823	-.11754	-.01032	-.01504	.01133	-.02066	-.11732	.05867	381.71526
10.330	2.001	-.04796	.05518	-.08676	-.00800	-.01242	.00652	-.01047	-.08863	.05212	381.29366
10.330	4.141	-.04014	.05292	-.05094	-.00432	-.01045	.00387	-.00571	-.05463	.04910	381.30560
10.330	5.938	-.03402	.05044	-.01548	-.00200	-.00881	.00187	-.00245	-.02061	.04857	381.72654
10.330	7.938	-.03009	.04811	.02759	-.00001	-.00776	.00037	.00070	.02068	.05146	381.96146
10.330	10.069	-.03314	.04645	.08252	.00039	-.00774	.00017	.00091	.07312	.06016	380.43774
10.330	15.168	-.05319	.04582	.23196	.00172	-.00995	.00078	.00091	.21190	.10491	379.51375
10.330	20.110	-.06568	.04805	.41268	-.00024	-.01109	.00084	.00108	.37100	.18701	381.45112
10.330	25.333	-.08227	.05068	.63796	-.00646	-.01228	.00124	-.00216	.55493	.31878	381.45729
10.330	30.433	-.09433	.05250	.87929	-.02107	-.01305	.00085	-.00337	.73155	.49065	381.07967
10.330	35.669	-.10928	.05222	1.14059	-.04397	-.01378	.00081	-.00614	.89500	.70912	381.14483
	GRADIENT	.00377	-.00176	.01427	.00092	.00099	-.00171	.00410	.01319	-.00369	-.15806

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01N79 LARC CFHT 118 (MA-22)

(RJA244) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 1.000

RUN NO. 244/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.338	-.00846	.10444	-.17754	-.04607	.00043	-.00052	-.00341	-.16052	.12908	.00000
10.330	-6.189	-.00932	.09653	-.14580	-.03979	.00022	-.00050	-.00340	-.13454	.11169	.00000
10.330	-4.255	-.00967	.09050	-.11588	-.03649	.00028	-.00057	-.00314	-.10885	.09884	.00000
10.330	-2.294	-.00959	.08131	-.08541	-.03519	.00015	-.00054	-.00324	-.08209	.08466	-.01573
10.330	-.219	-.00801	.07629	-.05488	-.03175	.00010	-.00053	-.00283	-.05459	.07650	-.01573
10.330	1.863	-.00916	.07280	-.02480	-.02793	.00004	-.00058	-.00243	-.02715	.07196	-.01573
10.330	3.921	-.00798	.06979	.00856	-.02439	-.00003	-.00056	-.00257	.00377	.07021	-.01572
10.330	6.106	-.00968	.06731	.04505	-.02081	-.00011	-.00057	-.00268	.03764	.07172	.00000
10.330	7.967	-.00819	.06549	.08580	-.01808	-.00020	-.00062	-.00293	.07576	.07774	.00000
10.330	9.997	-.00808	.06519	.13122	-.01675	-.00026	-.00076	-.00303	.11791	.08698	.00000
10.330	15.104	-.00690	.06339	.27961	-.01775	-.00052	-.00093	-.00381	.25343	.13407	.00000
10.330	20.229	-.00605	.06612	.46921	-.02231	-.00082	-.00096	-.00534	.41741	.22428	.00000
10.330	25.291	-.00689	.06822	.68149	-.03220	-.00122	-.00089	-.00753	.58703	.35282	.00000
10.330	30.342	-.00985	.06963	.92219	-.04951	-.00163	-.00077	-.00954	.76070	.52595	.00000
10.330	35.635	-.01401	.07213	1.18354	-.07392	-.00215	-.00066	-.01191	.91989	.74818	.00000
	GRADIENT	.00019	-.00243	.01509	.00154	-.00004	-.00000	.00010	.01366	-.00340	-.00152

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 170

01N79 LARC CFHT 118 (MA-22)

(RJA245) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = .000 BDFLAP = 13.750
 NO.JET = 1.000

RUN NO. 245/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/OA
10.330	-8.438	.00022	.10206	-.18225	-.04311	.00007	-.00263	.00164	-.16531	.12770	48.75307
10.330	-6.323	-.00246	.09425	-.15329	-.03601	-.00062	-.00266	.00382	-.14198	.11056	48.86723
10.330	-4.326	-.00530	.08754	-.12237	-.03371	-.00069	-.00213	.00346	-.11542	.09652	48.70899
10.330	-2.156	-.00319	.07988	-.08729	-.03167	-.00064	-.00211	.00228	-.08422	.08311	48.72350
10.330	-.224	-.00346	.07536	-.05898	-.02910	-.00064	-.00194	.00173	-.05869	.07559	48.79166
10.330	1.849	-.00499	.07225	-.03189	-.02370	-.00155	-.00183	.00217	-.03420	.07118	48.77018
10.330	3.907	-.00662	.06841	.00027	-.01983	-.00171	-.00177	.00201	-.00440	.06827	48.74967
10.330	6.070	-.00874	.06481	.03606	-.01539	-.00200	-.00173	.00216	.02901	.06826	48.74010
10.330	7.952	-.01198	.06312	.07574	-.01179	-.00237	-.00175	.00235	.06628	.07299	48.80199
10.330	10.031	-.01294	.06069	.12131	-.00966	-.00275	-.00169	.00236	.10889	.08089	48.66976
10.330	15.146	-.01820	.05861	.26745	-.00899	-.00401	-.00157	.00175	.24284	.12645	48.77971
10.330	20.090	-.02319	.06072	.45030	-.01294	-.00418	-.00150	.00017	.40205	.21170	48.75483
10.330	25.408	-.02664	.06319	.67611	-.02379	-.00455	-.00152	-.00179	.58350	.34717	48.70796
10.330	30.515	-.03238	.06496	.91885	-.04056	-.00516	-.00142	-.00395	.75861	.52252	48.80009
10.330	35.654	-.03909	.06648	1.17270	-.06351	-.00578	-.00151	-.00585	.91412	.73758	48.74826
	GRADIENT	-.00021	-.00224	.01469	.00174	-.00014	.00005	-.00015	.01329	-.00335	.00620

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 171

01N79 LARC CFHT 118 (MA-22)

(RJA246) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 1.000

RUN NO. 246/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/QA
10.330	-8.359	.00565	.09877	-.19076	-.03590	-.00177	-.00416	.00937	-.17437	.12545	97.28990
10.330	-6.430	.00424	.09068	-.16160	-.03100	-.00180	-.00380	.00826	-.15043	.10820	97.06625
10.330	-4.075	-.00311	.08271	-.12654	-.02864	-.00214	-.00295	.00873	-.12034	.09149	97.09828
10.330	-2.245	-.00310	.07648	-.09750	-.02699	-.00212	-.00265	.00663	-.09443	.08024	97.25232
10.330	-.125	-.00279	.07115	-.07008	-.02144	-.00261	-.00255	.00572	-.06993	.07131	97.06700
10.330	2.016	-.00513	.06734	-.03874	-.01801	-.00292	-.00245	.00458	-.04108	.05594	97.06804
10.330	3.881	-.00831	.06434	-.00906	-.01448	-.00302	-.00226	.00403	-.01339	.06357	97.02839
10.330	5.819	-.01056	.06128	.02394	-.01082	-.00329	-.00214	.00405	.01761	.06340	97.12542
10.330	7.973	-.01478	.05920	.07024	-.00798	-.00347	-.00205	.00423	.06135	.06837	97.10515
10.330	10.022	-.01421	.05718	.11633	-.00623	-.00390	-.00181	.00413	.10461	.07655	97.06029
10.330	15.135	-.02409	.05492	.25849	-.00444	-.00555	-.00187	.00443	.23518	.12050	97.13971
10.330	20.110	-.03352	.05716	.44016	-.00677	-.00642	-.00189	.00334	.39367	.20502	97.09280
10.330	25.503	-.04022	.05971	.66847	-.01657	-.00708	-.00199	.00158	.57762	.34171	97.05417
10.330	30.407	-.04897	.06132	.90194	-.03260	-.00767	-.00197	-.00026	.74684	.50940	97.05631
10.330	35.555	-.05763	.06284	1.15444	-.05564	-.00819	-.00204	-.00191	.90266	.72242	97.14890
	GRADIENT	-.00062	-.00227	.01455	.00185	-.00012	.00008	-.00057	.01324	-.00347	-.01649

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OF POOR QUALITY

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 172

01N79 LARC CFHT 118 (MA-22)

(RJA2471 (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 1.000

RUN NO. 247/ 0 RN/L = .93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.165	.00302	.08851	-.21058	-.02060	-.00568	-.00422	.02115	-.19587	.11752	194.15520
10.330	-6.275	-.00210	.08096	-.18283	-.01657	-.00631	-.00286	.01797	-.17289	.10046	194.52983
10.330	-4.241	.00041	.07305	-.14827	-.01661	-.00616	-.00342	.01483	-.14246	.08381	134.17397
10.330	-2.266	.00174	.06785	-.11861	-.01489	-.00590	-.00393	.01166	-.11584	.07249	194.56741
10.330	-.161	-.00035	.06325	-.08742	-.01199	-.00557	-.00369	.00863	-.08724	.06349	194.46393
10.330	1.900	-.00241	.05956	-.05720	-.00816	-.00553	-.00357	.00794	-.05915	.05763	194.17972
10.330	3.941	-.00378	.05660	-.02332	-.00373	-.00565	-.00355	.00774	-.02716	.05486	194.42365
10.330	6.138	-.00993	.05354	.01547	.00003	-.00597	-.00333	.00782	.00965	.05489	194.31680
10.330	8.047	-.01473	.05156	.05667	.00161	-.00624	-.00316	.00829	.04889	.05898	194.36579
10.330	10.036	-.01778	.04944	.10299	.00222	-.00660	-.00305	.00860	.09280	.06663	194.19631
10.330	15.115	-.03141	.04806	.24537	.00372	-.00807	-.00288	.00907	.22435	.11038	194.36140
10.330	20.253	-.04314	.05033	.43393	.00109	-.00913	-.00301	.00894	.38968	.19743	193.95952
10.330	25.344	-.05626	.05290	.64459	-.00530	-.01051	-.00335	.00823	.55991	.32372	194.09572
10.330	30.644	-.07407	.05480	.89180	-.02035	-.01165	-.00344	.00664	.73934	.50170	194.09034
10.330	35.745	-.08649	.05621	1.14252	-.04229	-.01231	-.00353	.00447	.89446	.71305	194.15544
10.330	GRADIENT	-.00061	-.00201	.01516	.00158	.00007	.00001	-.00087	.01399	-.00354	.00503

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(RJA248) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 248/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.306	-.01382	.09588	-.19118	-.03430	.00228	.00011	-.01038	-.17532	.12249	95.84652
10.330	-6.135	-.01976	.08533	-.16317	-.02992	.00046	.00045	.00164	-.15312	.10228	95.80435
10.330	-4.273	-.01670	.07851	-.13258	-.03031	.00116	.00021	.00094	-.12637	.08817	95.84890
10.330	-2.087	-.00859	.07257	-.10419	-.02983	.00185	-.00113	-.00105	-.10148	.07632	95.84161
10.330	-.229	-.00535	.06841	-.07985	-.02599	.00176	-.00161	-.00089	-.07958	.06873	95.60820
10.330	1.993	-.00211	.06414	-.04695	-.01876	.00188	-.00210	.00041	-.04915	.06247	95.47006
10.330	3.894	-.00193	.06119	-.01793	-.01310	.00192	-.00223	.00057	-.02204	.05984	95.58521
10.330	6.085	.00070	.05812	.01919	-.00740	.00255	-.00206	-.00030	.01292	.05983	95.53638
10.330	8.044	-.00013	.05631	.05821	-.00331	.00086	-.00197	.00017	.04976	.06390	95.43109
10.330	10.040	-.00256	.05393	.10186	-.00357	.00081	-.00161	-.00041	.09089	.07086	95.54529
10.330	15.114	-.00943	.05215	.24524	-.00182	-.00022	-.00084	-.00445	.22315	.11429	95.53085
10.330	20.292	-.00939	.05436	.43181	-.00143	-.00072	-.00049	-.00649	.38616	.20074	95.40771
10.330	25.308	-.00913	.05722	.64514	-.01139	-.00107	-.00032	-.00860	.55876	.32752	95.48299
10.330	30.413	-.01414	.05884	.88490	-.02737	-.00165	-.00018	-.01054	.73335	.49870	95.45611
10.330	35.485	-.01792	.06083	1.13636	-.04962	-.00246	-.00026	-.01330	.88998	.70918	95.34021
	GRADIENT	.00177	-.00211	.01403	.00222	.00008	-.00029	.00003	.01278	-.00346	-.04404

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MA22 - FORCE SOURCE DATA TABULATION

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01NBN50 LARC CFHT 118 (MA-22)

(RJA249) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 249/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.422	-.02603	.08520	-.22117	-.02003	.00272	.00093	.00092	-.20631	.11668	191.10615
10.330	-6.333	-.02163	.07613	-.18599	-.01824	.00237	.00063	-.00007	-.17646	.09618	191.75747
10.330	-4.305	-.01293	.06957	-.15620	-.01792	.00282	-.00086	-.00024	-.15054	.08110	191.90250
10.330	-2.191	-.00923	.06334	-.12938	-.01609	.00316	-.00144	-.00038	-.12686	.06824	191.59701
10.330	-.217	-.00982	.05850	-.10203	-.01410	.00285	-.00080	-.00087	-.10181	.05889	191.52872
10.330	2.045	-.00346	.05502	-.07631	-.00919	.00274	-.00142	-.00147	-.07822	.05226	191.57744
10.330	3.879	-.00371	.05257	-.05000	-.00517	.00283	-.00141	-.00126	-.05345	.04906	191.59960
10.330	5.792	.00154	.05008	-.01602	-.00202	.00358	-.00178	-.00200	-.02099	.04821	191.27395
10.330	7.965	.00385	.04687	.03398	.00469	.00234	-.00269	.00187	.02716	.05113	191.13080
10.330	10.008	.00981	.04539	.07980	.00510	.00192	-.00198	.00009	.07070	.05857	191.44028
10.330	15.113	-.00909	.04370	.22649	.00886	-.00059	-.00059	-.00437	.20726	.10124	191.04466
10.330	20.227	-.01484	.04522	.40769	.00966	-.00177	.00024	-.00714	.36691	.18339	191.09072
10.330	25.254	-.01782	.04834	.61756	.00282	-.00174	.00032	-.00878	.53792	.30719	191.09004
10.330	30.332	-.02253	.05077	.85545	-.01046	-.00283	.00081	-.01310	.71271	.47583	191.04595
10.330	35.681	-.02299	.05313	1.11758	-.03350	-.00295	.00041	-.01460	.87680	.69501	191.05000
	GRADIENT	.00119	-.00206	.01287	.00157	-.00002	-.00005	-.00015	.01177	-.00389	-.03049

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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OINB5N50 LARC CFHT 118 (MA-22)

(RJA250) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 250/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.341	-.02813	.07838	-.23689	-.01019	.00346	.00125	.00047	-.22302	.11191	258.13829
10.330	-6.242	-.01664	.06938	-.20219	-.00856	.00329	-.00025	.00050	-.19345	.09095	257.39947
10.330	-4.253	-.01230	.06268	-.17499	-.00672	.00390	-.00120	.00014	-.16986	.07549	257.04003
10.330	-2.162	-.00888	.05712	-.14470	-.00497	.00388	-.00145	.00145	-.14244	.06254	257.15739
10.330	-.194	-.00921	.05217	-.11873	-.00357	.00355	-.00085	.00046	-.11855	.05257	256.82737
10.330	2.040	-.00844	.04854	-.09103	.00006	.00362	-.00117	.00090	-.09270	.04527	257.07284
10.330	3.884	-.00349	.04692	-.06705	.00238	.00375	-.00165	.00058	-.07007	.04227	256.08190
10.330	5.790	-.00010	.04524	-.03499	.00401	.00431	-.00158	-.00159	-.03937	.04148	256.00452
10.330	7.992	-.00202	.04209	.01928	.01126	.00320	-.00108	-.00241	.01324	.04437	256.36323
10.330	10.015	-.00149	.04048	.06587	.01282	.00258	-.00057	-.00344	.05782	.05132	256.18691
10.330	15.106	-.01074	.03877	.21386	.01390	-.00011	-.00001	-.00492	.19637	.09317	256.18492
10.330	20.293	-.02278	.03958	.39626	.01750	-.00234	.00100	-.00799	.35794	.17456	256.07204
10.330	25.275	-.02741	.04293	.60375	.01118	-.00318	.00112	-.00986	.52762	.29660	256.12635
10.330	30.370	-.03088	.04578	.84299	-.00199	-.00375	.00137	-.01388	.70416	.46571	255.47586
10.330	35.686	-.02719	.04823	1.10252	-.02408	-.00331	.00108	-.01580	.86736	.68231	255.72307
GRADIENT		.00088	-.00196	.01316	.00114	-.00003	-.00003	.00002	.01218	-.00410	-.09551

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MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(RJA251) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 251/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

HACH	ALPHA	BETA	CAU	CN	CLH	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.303	.00445	.09880	-.18852	-.03725	-.00127	-.00422	.00849	-.17228	.12499	96.15821
10.330	-6.372	.00293	.09054	-.15923	-.03195	-.00140	-.00373	.00702	-.14820	.10765	96.07824
10.330	-4.324	-.00395	.08345	-.12659	-.03010	-.00163	-.00312	.00725	-.11994	.09275	96.19161
10.330	-2.164	-.00112	.07672	-.09376	-.02742	-.00172	-.00302	.00639	-.09079	.08020	96.22490
10.330	-.214	-.00539	.07191	-.06789	-.02318	-.00224	-.00252	.00493	-.06762	.07216	96.07890
10.330	2.011	-.00841	.06784	-.03478	-.01881	-.00248	-.00245	.00434	-.03714	.06658	96.07237
10.330	3.876	-.00915	.06467	-.00543	-.01529	-.00266	-.00240	.00416	-.00979	.06415	96.16209
10.330	6.008	-.00890	.06165	.03162	-.01164	-.00283	-.00240	.00432	.02499	.06462	96.18894
10.330	8.015	-.00990	.05948	.07184	-.00829	-.00308	-.00241	.00438	.06284	.06892	96.04683
10.330	10.013	-.01253	.05770	.11512	-.00560	-.00372	-.00235	.00464	.10334	.07683	96.12628
10.330	15.334	-.01893	.05509	.26916	-.00661	-.00439	-.00234	.00469	.24501	.12431	96.16104
10.330	20.367	-.02745	.05715	.45233	-.00832	-.00558	-.00233	.00319	.40416	.21100	96.14844
10.330	25.401	-.03477	.06004	.66707	-.01817	-.00623	-.00257	.00193	.57682	.34038	95.99723
10.330	30.457	-.04138	.06131	.90744	-.03514	-.00669	-.00260	.00060	.75114	.51282	96.11607
10.330	35.547	-.04988	.06269	1.15882	-.05819	-.00736	-.00276	-.00112	.90642	.72471	96.03440
GRADIENT		-.00086	-.00226	.01464	.00186	-.00014	.00010	-.00040	.01331	-.00345	-.01037

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(RJA252) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 SOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 252/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CO	T/QA
10.330	-8.325	.01490	.09180	-.20254	-.02531	-.00369	-.00592	.01511	-.18712	.12016	191.63437
10.330	-6.431	.00202	.08273	-.17722	-.01976	-.00438	-.00440	.01689	-.16684	.10206	191.70375
10.330	-4.141	.00165	.07519	-.14117	-.01805	-.00455	-.00394	.01489	-.13537	.08519	191.60116
10.330	-2.202	.00346	.06915	-.10907	-.01765	-.00398	-.00446	.01197	-.10633	.07329	191.36707
10.330	-.199	.00186	.06436	-.08207	-.01425	-.00394	-.00405	.00918	-.08184	.06465	191.39708
10.330	2.081	-.00203	.06012	-.04820	-.01005	-.00392	-.00404	.00829	-.05035	.05833	191.24350
10.330	3.883	-.00188	.05752	-.01898	-.00579	-.00428	-.00381	.00794	-.02283	.05610	191.14534
10.330	6.078	-.00538	.05446	.01990	-.00168	-.00438	-.00368	.00795	.01402	.05627	191.25524
10.330	7.862	-.00697	.05229	.05686	-.00036	-.00415	-.00353	.00797	.04917	.05958	190.75072
10.330	10.017	-.01376	.04995	.10752	.00034	-.00488	-.00327	.00809	.09720	.06789	190.98750
10.330	15.315	-.02642	.04811	.25732	.00190	-.00653	-.00324	.00862	.23547	.11437	190.90559
10.330	20.270	-.03276	.05002	.44059	-.00151	-.00702	-.00335	.00842	.39598	.19956	190.45475
10.330	25.261	-.04647	.05328	.64840	-.00843	-.00872	-.00389	.00813	.56366	.32489	190.63132
10.330	30.548	-.06001	.05485	.89533	-.02411	-.00986	-.00400	.00688	.74313	.50239	190.71166
10.330	35.638	-.07029	.05664	1.14639	-.04705	-.01041	-.00426	.00507	.89869	.71399	190.50518
	GRADIENT	-.00063	-.00218	.01501	.00158	.00003	.00003	-.00086	.01382	-.00360	-.05082

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OF POOR QUALITY

01N49 LARC CFHT 118 (MA-22)

(RJA253) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 253/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.258	.01239	.07461	-.23980	.00257	-.01034	-.00552	.02987	-.22660	.10828	386.50895
10.330	-6.376	.00885	.06512	-.20765	.00440	-.01085	-.00511	.02605	-.19914	.08777	383.74535
10.330	-4.079	.01389	.05804	-.17105	.00464	-.01096	-.00614	.02199	-.16649	.07007	382.19841
10.330	-2.186	.01372	.05354	-.14148	.00528	-.01022	-.00652	.01772	-.13933	.05890	382.46506
10.330	-.073	.00802	.04935	-.11085	.00777	-.00960	-.00609	.01559	-.11079	.04949	381.86638
10.330	1.938	.00358	.04606	-.08095	.01152	-.00944	-.00602	.01531	-.08246	.04330	380.88764
10.330	3.954	-.00141	.04282	-.04503	.01537	-.00898	-.00606	.01549	-.04788	.03961	382.45653
10.330	6.145	-.00457	.03992	-.00529	.01844	-.00855	-.00602	.01569	-.00953	.03912	381.21374
10.330	7.919	-.01010	.03768	.03160	.01963	-.00869	-.00591	.01606	.02611	.04167	382.95521
10.330	10.087	-.01271	.03567	.08628	.01898	-.00874	-.00581	.01621	.07870	.05023	382.65873
10.330	15.123	-.02890	.03467	.23374	.01698	-.00930	-.00552	.01646	.21659	.09445	381.24683
10.330	20.389	-.04214	.03628	.42568	.01449	-.01030	-.00574	.01730	.38637	.18231	381.33307
10.330	25.351	-.05538	.03885	.63511	.00751	-.01149	-.00626	.01716	.55731	.30704	382.05375
10.330	30.424	-.07148	.04115	.86943	-.00725	-.01276	-.00669	.01636	.72887	.47576	380.30536
10.330	35.714	-.09297	.04385	1.12660	-.02880	-.01435	-.00741	.01582	.88914	.69324	382.57370
	GRADIENT	-.00202	-.00188	.01548	.00137	.00023	.00003	-.00076	.01457	-.00379	-.05342

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 179

01N83 LARC CFHT 118 (MA-22)

(RJA254) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 142.500
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 3.000

RUN NO. 254/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.360	.00699	.09682	-.19388	-.03323	-.00187	-.00513	.01105	-.17775	.12398	143.51690
10.330	-6.274	.00585	.08776	-.16081	-.02845	-.00192	-.00455	.00949	-.15025	.10480	143.47708
10.330	-4.258	.00112	.08077	-.12852	-.02721	-.00228	-.00379	.00956	-.12216	.09008	143.60069
10.330	-2.277	-.00103	.07465	-.09924	-.02520	-.00227	-.00366	.00828	-.09619	.07853	143.24916
10.330	-.167	.00137	.06945	-.07179	-.01975	-.00259	-.00345	.00685	-.07159	.06966	143.55577
10.330	1.879	-.00447	.06555	-.04152	-.01591	-.00282	-.00330	.00605	-.04365	.06415	143.61020
10.330	3.913	-.00398	.06226	-.01003	-.01165	-.00316	-.00316	.00552	-.01426	.06143	143.30602
10.330	5.908	-.00687	.05946	.02390	-.00819	-.00332	-.00316	.00559	.01765	.06160	143.29256
10.330	8.088	-.00829	.05704	.06940	-.00509	-.00346	-.00316	.00590	.06069	.06624	143.31627
10.330	10.091	-.01263	.05515	.11381	-.00328	-.00387	-.00304	.00604	.10239	.07423	143.08370
10.330	15.122	-.02084	.05289	.25646	-.00232	-.00552	-.00292	.00596	.23378	.11796	143.29221
10.330	20.092	-.03152	.05502	.43522	-.00402	-.00660	-.00295	.00521	.38983	.20119	143.32751
10.330	25.285	-.03828	.05770	.65734	-.01393	-.00729	-.00331	.00419	.56972	.33293	143.22747
10.330	30.409	-.04764	.05908	.89911	-.03049	-.00782	-.00345	.00284	.74552	.50606	143.30546
10.330	35.532	-.05601	.06043	1.14967	-.05328	-.00848	-.00369	.00137	.90048	.71731	143.42069
	GRADIENT	-.00066	-.00225	.01437	.00197	-.00011	.00008	-.00050	.01309	-.00350	-.01074

01N83 LARC CFHT 118 (MA-22)

(RJA255) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 285.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 3.000

RUN NO. 255/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.370	.01579	.08594	-.21314	-.01703	-.00520	-.00674	.02336	-.19636	.11605	286.60060
10.330	-6.300	.00626	.07786	-.18174	-.01284	-.00550	-.00537	.02156	-.17210	.09733	286.90915
10.330	-4.291	.00687	.07010	-.14824	-.01263	-.00577	-.00514	.01786	-.14259	.08100	286.84745
10.330	-2.059	.00901	.06384	-.11389	-.01157	-.00507	-.00588	.01479	-.11153	.06789	286.76891
10.330	-.187	.00640	.05979	-.08774	-.00825	-.00501	-.00554	.01178	-.08754	.06007	286.19106
10.330	2.003	.00676	.05595	-.05470	-.00409	-.00485	-.00552	.01117	-.05662	.05400	285.99734
10.330	3.876	.00278	.05302	-.02619	.00084	-.00528	-.00531	.01087	-.02973	.05111	286.13749
10.330	6.080	-.00125	.05010	.01384	.00445	-.00517	-.00512	.01078	.00846	.05129	286.04691
10.330	7.881	-.00633	.04796	.05032	.00591	-.00519	-.00497	.01122	.04326	.05441	285.85352
10.330	10.082	-.00885	.04547	.10143	.00667	-.00575	-.00480	.01150	.09191	.06252	285.25299
10.330	15.131	-.02136	.04400	.24580	.00673	-.00717	-.00471	.01209	.22580	.10663	285.68924
10.330	20.119	-.03719	.04615	.42188	.00731	-.00919	-.00491	.01215	.38027	.18845	285.01785
10.330	25.367	-.05195	.04927	.64232	.00005	-.01065	-.00535	.01187	.55928	.31970	285.74697
10.330	30.470	-.06538	.05086	.87791	-.01573	-.01135	-.00563	.01122	.73087	.48902	285.25491
10.330	35.642	-.07771	.05248	1.13200	-.03863	-.01196	-.00604	.00985	.88937	.70229	285.06041
	GRADIENT	-.00050	-.00206	.01484	.00168	.00006	-.00000	-.00086	.01373	-.00362	-.10712

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA258) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = .000 BDFLAP = 13.750
 NO.JET = 3.000

RUN NO. 256/ 0 RN/L = .99 GRADIENT INTERVAL * -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.337	.02707	.06601	-.25280	.01551	-.01216	-.00799	.03689	-.24055	.10197	573.94012
10.330	-6.262	.02563	.05605	-.21675	.01741	-.01252	-.00841	.03346	-.20935	.07938	574.26758
10.330	-4.230	.02686	.05063	-.18386	.01687	-.01287	-.00937	.02933	-.17963	.06405	573.15275
10.330	-1.999	.02586	.04503	-.15137	.01787	-.01198	-.00940	.02440	-.14971	.05029	572.63132
10.330	-.134	.01991	.04142	-.12475	.01984	-.01135	-.00907	.02312	-.12465	.04171	572.35375
10.330	2.077	.01423	.03800	-.09070	.02433	-.01111	-.00911	.02271	-.09202	.03469	573.16127
10.330	3.990	.01011	.03492	-.05826	.02791	-.01068	-.00908	.02287	-.06054	.03079	571.54890
10.330	6.136	.00448	.03209	-.01890	.03078	-.01022	-.00904	.02312	-.02704	.02909	572.23450
10.330	7.943	-.00102	.02992	.01921	.03126	-.01018	-.00894	.02335	.01704	.03229	571.21735
10.330	10.111	-.00563	.02792	.07302	.03076	-.01034	-.00889	.02352	.06699	.04030	571.53189
10.330	15.405	-.02077	.02729	.22955	.02788	-.01069	-.00873	.02433	.21406	.08729	571.30120
10.330	20.399	-.03920	.02854	.40909	.02750	-.01220	-.00887	.02516	.37349	.16933	570.93457
10.330	25.444	-.05964	.03178	.61603	.02209	-.01407	-.00952	.02540	.54263	.29336	571.16773
10.330	30.461	-.08033	.03430	.84579	.00848	-.01551	-.01014	.02566	.71166	.45834	570.18633
10.330	35.565	-.10421	.03677	1.09581	-.01163	-.01690	-.01065	.02492	.87001	.66726	569.70354
	GRADIENT	-.00219	-.00188	.01520	.00139	.00026	.00004	-.00072	.01442	-.00401	-.12831

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 182

01N83 LARC CFHT 118 (MA-22)

(RJA257) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 SDFLAP = -14.250
 NO.JET = 3.000

RUN NO. 257/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.445	-.00996	.10523	-.17991	-.04580	.00047	-.00057	-.00462	-.16251	.13051	-.13908
10.330	-6.367	-.01018	.09782	-.14957	-.03967	.00024	-.00060	-.00414	-.13779	.11381	-.18551
10.330	-4.129	-.00969	.09087	-.11516	-.03623	.00030	-.00070	-.00397	-.10832	.09893	-.18554
10.330	-2.114	-.01093	.08171	-.08350	-.03540	.00018	-.00065	-.00397	-.08043	.08473	-.18545
10.330	-.231	-.01051	.07691	-.05539	-.03240	.00010	-.00064	-.00365	-.05508	.07713	-.09275
10.330	1.940	-.00787	.07325	-.02361	-.02746	.00007	-.00073	-.00312	-.02608	.07241	-.13911
10.330	3.852	-.00872	.07033	.00520	-.02318	.00000	-.00072	-.00281	.00446	.07052	-.23181
10.330	5.808	-.01052	.06730	.03633	-.01827	.00006	-.00062	-.00339	.02933	.07063	-.18545
10.330	7.973	-.01024	.06600	.08056	-.01432	-.00020	-.00075	-.00331	.07062	.07653	-.13909
10.330	9.984	-.00592	.06025	.11430	-.00909	.00043	-.00072	-.00432	.10212	.07915	-.09275
10.330	15.250	-.00830	.06208	.27412	-.00623	-.00058	-.00110	-.00416	.24814	.13200	-.09276
10.330	20.277	-.00696	.06333	.45126	-.00306	-.00086	-.00110	-.00567	.40135	.21579	-.13909
10.330	25.239	-.00909	.06400	.65525	-.00417	-.00128	-.00103	-.00767	.56541	.33729	-.09274
10.330	30.570	-.01101	.06317	.89496	-.01125	-.00169	-.00092	-.00971	.73844	.50955	-.18546
10.330	35.661	-.01463	.06211	1.14032	-.02530	-.00217	-.00090	-.01188	.89029	.71525	-.09274
	GRADIENT	.00025	-.00247	.01502	.00170	-.00004	-.00001	.00016	.01358	-.00345	-.00242

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA258) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 142.500
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 3.000

RUN NO. 258/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.138	.01040	.09515	-.19457	-.02841	-.00249	-.00639	.01415	-.17914	.12173	144.26768
10.330	-6.241	.00851	.08672	-.16368	-.02491	-.00261	-.00562	.01292	-.15328	.10400	144.43493
10.330	-4.236	.00585	.08028	-.13150	-.02345	-.00273	-.00507	.01259	-.12521	.08977	144.46011
10.330	-2.240	.00255	.07409	-.10378	-.02151	-.00269	-.00469	.01066	-.10080	.07809	144.22214
10.330	-.111	.00175	.06839	-.07534	-.01660	-.00307	-.00441	.00845	-.07521	.06852	144.18564
10.330	1.866	.00215	.06521	-.04636	-.01233	-.00327	-.00442	.00759	-.04845	.06366	144.35012
10.330	3.976	-.00020	.06172	-.01485	-.00722	-.00366	-.00428	.00717	-.01909	.06055	143.93292
10.330	5.968	-.00289	.05885	.01762	-.00260	-.00376	-.00425	.00744	.01140	.06036	144.30792
10.330	7.967	-.00514	.05665	.05714	.00168	-.00379	-.00418	.00760	.04874	.06402	144.25289
10.330	10.151	-.00847	.05374	.10192	.00641	-.00390	-.00369	.00646	.09086	.07086	144.22837
10.330	14.990	-.02019	.05172	.23419	.01199	-.00607	-.00367	.00741	.21285	.11053	143.72271
10.330	20.347	-.02968	.05299	.42011	.01606	-.00693	-.00367	.00684	.37547	.19576	144.05072
10.330	25.297	-.03941	.05416	.62503	.01560	-.00759	-.00394	.00623	.54195	.31605	144.22263
10.330	30.424	-.04794	.05361	.85666	.00845	-.00807	-.00416	.00493	.71155	.48004	143.97035
10.330	35.771	-.05435	.05229	1.10795	-.00524	-.00852	-.00451	.00376	.86838	.69008	144.03105
	GRADIENT	-.00061	-.00224	.01416	.00203	-.00012	.00009	-.00068	.01289	-.00355	-.04529

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA259) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 BDFLAP = -14.250
 NO.JET = 3.000

RUN NO. 259/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.371	-.00830	.10472	-.17911	-.04603	.00047	-.00046	-.00334	-.16196	.12968	.00000
10.330	-6.452	-.00700	.09778	-.15131	-.04033	.00022	-.00050	-.00327	-.13938	.11418	.00000
10.330	-4.300	-.00746	.09115	-.11855	-.03679	.00028	-.00052	-.00318	-.11139	.09979	.00000
10.330	-2.299	-.00841	.08186	-.08530	-.03611	.00018	-.00052	-.00330	-.08195	.08522	.00000
10.330	-.146	-.00819	.07640	-.05279	-.03247	.00008	-.00047	-.00293	-.05260	.07653	.00000
10.330	2.032	-.00798	.07262	-.02375	-.02776	.00002	-.00055	-.00252	-.02631	.07173	.00000
10.330	3.911	-.00750	.06990	.00654	-.02339	-.00004	-.00055	-.00238	.00176	.07019	.00000
10.330	6.028	-.00760	.06675	.04069	-.01814	.00005	-.00045	-.00277	.03348	.07065	.00000
10.330	7.987	-.00715	.06558	.08065	-.01446	-.00018	-.00059	-.00281	.07076	.07615	.00000
10.330	10.179	-.00556	.05967	.11811	-.00886	.00042	-.00058	-.00406	.10571	.07961	.00000
10.330	15.131	-.00448	.06189	.26979	-.00630	-.00052	-.00094	-.00372	.24428	.13017	.00000
10.330	20.146	-.00564	.06312	.44690	-.00294	-.00084	-.00093	-.00535	.39782	.21318	.00000
10.330	25.418	-.00631	.06354	.65886	-.00388	-.00122	-.00089	-.00749	.56781	.34019	.00000
10.330	30.596	-.00976	.06291	.89574	-.01134	-.00162	-.00080	-.00947	.73901	.51007	.00000
10.330	35.717	-.01209	.06208	1.14093	-.02544	-.00212	-.00074	-.01189	.89010	.71646	.00000
	GRADIENT	.00002	-.00249	.01501	.00169	-.00004	-.00000	.00012	.01358	-.00351	.00000

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 185

OINB3 LARC CFHT 118 (MA-22)

(RJA260) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 285.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 3.000

RUN NO. 260/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.294	.02475	.08616	-.22191	-.01243	-.00618	-.00806	.02741	-.20716	.11727	283.49250
10.330	-6.372	.01826	.07850	-.19228	-.00825	-.00663	-.00682	.02457	-.18238	.09935	283.68989
10.330	-4.211	.01678	.07026	-.15564	-.00839	-.00680	-.00676	.02060	-.15006	.08149	283.13654
10.330	-2.203	.01895	.06483	-.12419	-.00658	-.00641	-.00754	.01777	-.12161	.06956	284.06857
10.330	-.182	.01695	.06029	-.09698	-.00393	-.00594	-.00718	.01430	-.09679	.06060	283.75254
10.330	1.906	.01341	.05660	-.06786	.00087	-.00593	-.00694	.01335	-.06970	.05431	283.22848
10.330	3.974	.01073	.05326	-.03476	.00605	-.00605	-.00700	.01349	-.03836	.05072	283.23020
10.330	6.012	.00796	.05022	.00160	.01054	-.00563	-.00693	.01357	-.00367	.05011	282.54033
10.330	8.013	.00435	.04765	.04246	.01332	-.00572	-.00672	.01398	.03541	.05310	283.17312
10.330	10.248	-.00173	.04501	.09179	.01635	-.00646	-.00656	.01402	.08232	.06063	283.11878
10.330	15.397	-.01768	.04389	.23128	.02451	-.00835	-.00636	.01452	.21133	.10372	283.61822
10.330	20.475	-.03253	.04508	.40647	.03164	-.01001	-.00646	.01506	.36502	.18441	283.41527
10.330	25.581	-.04683	.04631	.61572	.03168	-.01106	-.00661	.01437	.53537	.30763	283.10538
10.330	30.735	-.06315	.04604	.85076	.02465	-.01179	-.00675	.01351	.70773	.47437	283.19383
10.330	35.782	-.07632	.04490	1.09330	.01111	-.01229	-.00705	.01220	.86068	.67568	283.26179
	GRADIENT	-.00087	-.00206	.01456	.00178	.00010	.00001	-.00091	.01344	-.00374	-.03266

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA281) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = .000 BDFLAP = -14.250
 NO.JET = 3.000

RUN NO. 261/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLH	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.262	.04612	.06771	-.26492	.02290	-.01367	-.01133	.04257	-.25244	.10507	569.80614
10.330	-6.328	.04629	.05862	-.23232	.02463	-.01379	-.01219	.03943	-.22444	.08387	569.45938
10.330	-4.159	.04938	.05310	-.19700	.02421	-.01428	-.01325	.03477	-.19263	.06725	570.11105
10.330	-2.166	.04343	.04814	-.16716	.02514	-.01333	-.01272	.02904	-.16523	.05443	569.06754
10.330	-.123	.03732	.04450	-.14033	.02824	-.01236	-.01253	.02834	-.14024	.04481	567.11446
10.330	1.974	.03229	.04076	-.11012	.03214	-.01216	-.01251	.02794	-.11146	.03694	568.43250
10.330	3.883	.02472	.03767	-.07812	.03655	-.01188	-.01256	.02823	-.08049	.03229	568.89310
10.330	6.185	.02084	.03403	-.03521	.04072	-.01115	-.01273	.02904	-.03867	.03004	569.10058
10.330	8.038	.01671	.03173	.00643	.04190	-.01095	-.01261	.02925	.00193	.03232	568.48884
10.330	10.131	.01083	.02974	.05352	.04345	-.01105	-.01270	.02938	.04746	.03869	567.75811
10.330	15.211	-.00525	.02875	.20264	.04674	-.01153	-.01262	.03032	.18800	.08091	566.63062
10.330	20.263	-.02782	.02973	.37555	.05394	-.01353	-.01275	.03138	.34201	.15796	567.79015
10.330	25.668	-.05472	.03143	.58678	.05902	-.01589	-.01337	.03192	.51527	.28249	567.82229
10.330	30.644	-.07817	.03155	.81001	.05483	-.01714	-.01365	.03171	.68082	.44001	566.64957
10.330	35.736	-.09927	.03049	1.05241	.04116	-.01776	-.01371	.03051	.83645	.63941	566.02879
	GRADIENT	-.00299	-.00189	.01457	.00157	.00030	.00008	-.00071	.01374	-.00433	-.15238

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 187

01N49 LARC CFHT 118 (MA-22)

(RJA262) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 262/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEL	CYN	CY	CL	CD	T/OA
10.330	-8.320	.01079	.09880	-.19261	-.03456	-.00162	-.00515	.01074	-.17628	.12564	94.72139
10.330	-6.325	.00790	.09034	-.16158	-.02970	-.00157	-.00477	.00882	-.15064	.10759	94.98334
10.330	-4.226	.00417	.08342	-.12926	-.02777	-.00194	-.00404	.00956	-.12276	.09272	94.84359
10.330	-2.228	.00317	.07703	-.09917	-.02510	-.00209	-.00374	.00823	-.09610	.08083	94.71223
10.330	-.207	.00103	.07142	-.07258	-.02058	-.00259	-.00332	.00657	-.07232	.07168	94.75027
10.330	1.850	-.00114	.06782	-.04315	-.01679	-.00276	-.00330	.00592	-.04532	.06639	94.61839
10.330	4.077	-.00253	.06408	-.00868	-.01192	-.00304	-.00317	.00535	-.01321	.06330	94.69547
10.330	5.932	-.00434	.06137	.002173	-.00709	-.00325	-.00314	.00554	.01528	.06328	94.61598
10.330	8.071	-.00592	.05882	.06515	-.00181	-.00321	-.00299	.00539	.05624	.06739	94.64844
10.330	10.180	-.00896	.05590	.10677	.00279	-.00318	-.00256	.00440	.09521	.07389	94.72348
10.330	15.122	-.01883	.05416	.24602	.00734	-.00497	-.00264	.00514	.22337	.11647	94.79760
10.330	20.308	-.02571	.05518	.43316	.01140	-.00567	-.00267	.00409	.38708	.20209	94.70941
10.330	25.439	-.03152	.05605	.64240	.01078	-.00623	-.00297	.00268	.55603	.32657	94.60813
10.330	30.556	-.04035	.05561	.87618	.00304	-.00686	-.00302	.00115	.72623	.49333	94.50009
10.330	35.620	-.04790	.05415	1.11847	-.01043	-.00745	-.00341	-.00005	.87766	.69543	94.69653
	GRADIENT	-.00086	-.00231	.01437	.00194	-.00014	.00010	-.00052	.01306	-.00352	-.01860

01N49 LARC CFHT 118 (MA-22)

(RJA263) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = -14.250
 NOJET = 2.000

RUN NO. 263/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.436	.02222	.09279	-.21228	-.02103	-.00481	-.00751	.01927	-.19636	.12293	189.54462
10.330	-6.306	.00936	.08290	-.18279	-.01569	-.00521	-.00561	.02041	-.17258	.10247	189.27057
10.330	-4.245	.00726	.07563	-.14923	-.01488	-.00551	-.00513	.01709	-.14322	.08647	189.22975
10.330	-2.263	.01019	.06974	-.11617	-.01382	-.00490	-.00593	.01494	-.11332	.07427	189.56846
10.330	-.206	.00898	.06475	-.08882	-.01092	-.00485	-.00544	.01117	-.08859	.06507	189.63600
10.330	1.880	.00840	.06071	-.05896	-.00712	-.00466	-.00544	.01046	-.06092	.05875	189.13641
10.330	3.836	.00392	.05774	-.02801	-.00210	-.00490	-.00533	.01014	-.03181	.05574	189.06216
10.330	6.002	.00080	.05462	.00855	.00334	-.00510	-.00515	.01024	.00279	.05522	189.18420
10.330	7.984	-.00373	.05208	.04851	.00671	-.00495	-.00479	.01014	.04080	.05831	189.26840
10.330	10.183	-.00820	.04923	.09782	.00979	-.00545	-.00466	.01040	.08758	.06575	189.20461
10.330	15.151	-.02051	.04766	.23414	.01597	-.00692	-.00454	.01069	.21355	.10720	188.91299
10.330	20.164	-.03315	.04872	.40929	.02265	-.00831	-.00451	.01092	.36741	.18682	189.18125
10.330	25.480	-.04590	.05019	.62642	.02340	-.00963	-.00484	.00980	.54390	.31480	189.24140
10.330	30.643	-.06019	.04982	.86152	.01574	-.01035	-.00504	.00856	.71582	.48197	188.89388
10.330	35.715	-.07081	.04900	1.10521	.00241	-.01088	-.00530	.00742	.86874	.68496	189.23303
	GRADIENT	-.00042	-.00221	.01475	.00159	.00007	.00000	-.00091	.01355	-.00379	-.03812

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 189

01N49 LARC CFHT 118 (MA-22)

(RJA264) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 264/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.278	.02975	.07636	-.24982	.00778	-.01154	-.00809	.03410	-.23623	.11153	378.39424
10.330	-6.385	.02653	.06693	-.21862	.00970	-.01196	-.00814	.03070	-.20882	.09083	379.73380
10.330	-4.245	.02990	.06069	-.18340	.01003	-.01225	-.00926	.02727	-.17840	.07409	377.20126
10.330	-2.201	.02905	.05547	-.15425	.01099	-.01159	-.00951	.02250	-.15200	.06135	378.17225
10.330	-.164	.02233	.05131	-.12610	.01369	-.01099	-.00899	.02033	-.12595	.05167	377.73257
10.330	1.925	.01730	.04792	-.09394	.01766	-.01064	-.00895	.02000	-.09550	.04474	377.76307
10.330	3.845	.01369	.04475	-.06140	.02199	-.01032	-.00899	.02003	-.06427	.04053	378.42804
10.330	5.978	.00680	.04144	-.02349	.02598	-.00988	-.00910	.02079	-.02768	.03877	377.09936
10.330	8.098	.00200	.03889	.02135	.02903	-.00969	-.00896	.02097	.01566	.04151	377.88251
10.330	10.095	-.00058	.03686	.06913	.02987	-.00963	-.00884	.02096	.06160	.04840	376.66024
10.330	15.249	-.01593	.03561	.21950	.03305	-.00994	-.00871	.02141	.20250	.09212	376.77665
10.330	20.251	-.03310	.03392	.33196	.03957	-.01137	-.00880	.02229	.35530	.16937	377.82049
10.330	25.509	-.05333	.03759	.60727	.04213	-.01333	-.00924	.02233	.53147	.29619	375.58865
10.330	30.630	-.07563	.03803	.83366	.03744	-.01473	-.00961	.02196	.69797	.45747	376.56903
10.330	35.723	-.09581	.03710	1.07547	.02531	-.01580	-.00987	.02084	.85146	.65805	376.77543
	GRADIENT	-.00218	-.00194	.01498	.00150	.00024	.00005	-.00084	.01402	-.00413	.10007

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 OF POOR QUALITY

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(RJA265) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 265/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.289	-.01774	.09572	-.19711	-.03107	.00268	.00134	-.01294	-.18125	.12314	94.56781
10.330	-6.314	-.02089	.08559	-.17297	-.02643	.00102	.00108	-.00131	-.16250	.10409	94.57128
10.330	-4.230	-.02257	.07881	-.13709	-.02715	.00160	.00153	-.00173	-.13090	.08871	94.47381
10.330	-2.235	-.01371	.07333	-.11200	-.02633	.00222	.00010	-.00279	-.10906	.07764	94.53440
10.330	-.226	-.00911	.06864	-.08623	-.02262	.00216	-.00038	-.00246	-.08595	.06898	94.56024
10.330	1.843	-.00629	.06478	-.05906	-.01517	.00234	-.00090	-.00088	-.06112	.06284	94.39231
10.330	3.909	-.00524	.06151	-.02582	-.00871	.00246	-.00109	-.00099	-.02995	.05961	94.47995
10.330	6.061	-.00439	.05860	.01117	-.00291	.00292	-.00088	-.00211	.00492	.05945	94.40189
10.330	7.882	-.00555	.05637	.04454	.00320	.00155	-.00093	-.00170	.03639	.06194	94.55896
10.330	10.013	-.00543	.05365	.09046	.00417	.00107	-.00064	-.00191	.07976	.06857	94.35198
10.330	15.158	-.00630	.05132	.23119	.01262	.00051	.00000	-.00588	.20973	.10998	94.53997
10.330	20.193	-.00991	.05223	.40704	.01829	-.00029	.00038	-.00771	.36399	.18952	94.49223
10.330	25.491	-.00952	.05377	.62703	.01744	-.00071	.00051	-.01021	.54285	.31839	94.26754
10.330	30.462	-.01571	.05350	.85363	.01058	-.00144	.00074	-.01244	.70868	.47888	94.33928
10.330	35.587	-.01605	.05260	1.09840	-.00232	-.00195	.00089	-.01581	.86265	.68198	94.45036
	GRADIENT	.00206	-.00212	.01354	.00237	.00009	-.00031	.00017	.01228	-.00358	-.00646

DATE 13 APR 78

MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(RJA268) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 266/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLH	CEB	CYN	CY	CL	CC	T/QA
10.330	-8.407	-.03505	.08642	-.23096	-.01479	.00381	.00299	-.00386	-.21585	.11926	189.66290
10.330	-6.249	-.03242	.07725	-.19408	-.01228	.00339	.00301	-.00459	-.18452	.09792	189.87737
10.330	-4.127	-.02119	.06976	-.16493	-.01188	.00407	.00105	-.00317	-.15948	.08145	189.73213
10.330	-2.302	-.01723	.06492	-.14299	-.01011	.00428	.00060	-.00318	-.14026	.07061	189.71530
10.330	-.149	-.01662	.05961	-.11230	-.00794	.00390	.00129	-.00392	-.11215	.05990	189.50347
10.330	1.906	-.01358	.05628	-.08829	-.00335	.00385	.00083	-.00480	-.09012	.05331	189.61304
10.330	4.106	-.01254	.05333	-.05623	.00106	.00385	.00095	-.00448	-.05990	.04916	189.52790
10.330	5.974	-.00786	.05067	-.02534	.00483	.00455	.00058	-.00550	-.03047	.04776	189.35895
10.330	7.967	-.00328	.04734	.02125	.01213	.00337	-.00070	-.00131	.01448	.04983	188.94365
10.330	10.006	-.00528	.04586	.06580	.01470	.00279	-.00007	-.00280	.05683	.05659	189.30913
10.330	15.167	-.01255	.04393	.20997	.02431	.00064	.00147	-.00807	.19116	.09734	189.18734
10.330	20.176	-.02147	.04451	.38013	.03349	-.00055	.00232	-.01087	.34145	.17289	189.13857
10.330	25.488	-.01852	.04650	.59755	.03410	-.00074	.00220	-.01247	.51939	.29911	189.23610
10.330	30.466	-.02355	.04659	.82278	.02986	-.00197	.00253	-.01626	.68555	.45733	189.33422
10.330	35.781	-.02204	.04624	1.07867	.01580	-.00205	.00226	-.01843	.84805	.66820	189.17469
	GRADIENT	.00101	-.00200	.01317	.00158	-.00004	.00000	-.00020	.01207	-.00394	-.02471

01N85N50 LARC CFHT 118 (MA-22)

(RJA267) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = .000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 267/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.266	-.04092	.07973	-.24731	-.00281	.00507	.00381	-.00492	-.23327	.11448	255.30151
10.330	-6.145	-.03221	.07011	-.21343	-.00052	.00509	.00215	-.00392	-.20470	.09255	254.83125
10.330	-4.191	-.02498	.06378	-.18559	.00100	.00530	.00163	-.00403	-.18043	.07717	254.71014
10.330	-2.187	-.02223	.05864	-.15752	.00236	.00532	.00126	-.00258	-.15518	.06461	253.84168
10.330	-.182	-.02130	.05328	-.13039	.00444	.00495	.00202	-.00398	-.13022	.05369	254.10470
10.330	1.860	-.02009	.04986	-.10481	.00752	.00497	.00174	-.00375	-.10637	.04643	253.99706
10.330	3.957	-.01340	.04805	-.07768	.01015	.00513	.00137	-.00423	-.08081	.04258	253.66797
10.330	5.919	-.01015	.04654	-.04534	.01153	.00584	.00161	-.00617	-.04990	.04162	253.76539
10.330	8.055	-.01017	.04309	.00614	.02076	.00459	.00191	-.00747	.00004	.04353	253.59519
10.330	10.106	-.01019	.04136	.05281	.02342	.00366	.00194	-.00747	.04474	.04998	253.88046
10.330	14.996	-.01662	.03950	.19135	.03076	.00158	.00284	-.00987	.17461	.08767	253.79173
10.330	20.323	-.02698	.03928	.37106	.04198	-.00086	.00393	-.01327	.33432	.16570	253.42628
10.330	25.392	-.02904	.04158	.57591	.04487	-.00170	.00388	-.01492	.50245	.28452	253.43907
10.330	30.641	-.02998	.04220	.81285	.04045	-.00232	.00396	-.01835	.67785	.45059	253.76038
10.330	35.716	-.02788	.04188	1.05736	.02781	-.00210	.00385	-.02059	.83404	.65126	253.16664
	GRADIENT	.00125	-.00197	.01320	.00115	-.00003	-.00000	-.00008	.01219	-.00429	-.09473

DATE 12 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (MA-22)

(RJA268) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 ØREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = .000 ØØFLAP = -14.250
 NO.JET = 1.000

RUN NO. 268/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.458	.00130	.10304	-.18548	-.04265	.00013	-.00313	.00153	-.16831	.12920	47.86615
10.330	-6.319	.00050	.09497	-.15492	-.03579	-.00055	-.00317	.00367	-.14353	.11144	47.94342
10.330	-4.176	-.00200	.08736	-.12173	-.03276	-.00066	-.00260	.00338	-.11505	.09599	47.94852
10.330	-2.323	-.00255	.08084	-.09270	-.03187	-.00072	-.00256	.00258	-.08935	.08453	47.90284
10.330	-.053	-.00237	.07567	-.05890	-.02812	-.00069	-.00233	.00167	-.05883	.07572	47.89811
10.330	1.784	-.00473	.07240	-.03564	-.02261	-.00152	-.00219	.00223	-.03787	.07126	47.92843
10.330	3.890	-.00719	.06835	-.00250	-.01789	-.00166	-.00210	.00206	-.00713	.06802	47.97555
10.330	5.897	-.00791	.06532	.02897	-.01294	-.00186	-.00204	.00210	.02211	.06795	47.96039
10.330	8.032	-.00956	.06318	.07213	-.00764	-.00226	-.00204	.00232	.06260	.07264	47.99541
10.330	10.071	-.01202	.05924	.11189	-.00159	-.00209	-.00158	.00061	.09981	.07789	47.92921
10.330	15.352	-.01820	.05815	.26389	.00224	-.00387	-.00183	.00147	.23908	.12593	47.90155
10.330	20.402	-.02133	.05921	.44660	.00517	-.00399	-.00177	.00008	.39794	.21119	47.88782
10.330	25.252	-.02688	.06007	.64808	.00408	-.00441	-.00190	-.00166	.56052	.33080	47.94515
10.330	30.466	-.03166	.05947	.88579	-.00346	-.00498	-.00191	-.00344	.73334	.50037	48.02859
10.330	35.535	-.03783	.05830	1.12990	-.01667	-.00560	-.00214	-.00516	.88558	.70414	47.99299
	GRADIENT	-.00062	-.00229	.01461	.00193	-.00014	.00007	-.00015	.01321	-.00342	.00396

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01N79 LARC CFHT 118 (MA-22)

(RJA269) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 1.000

RUN NO. 269/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.433	.00736	.10022	-.19304	-.03567	-.00166	-.00509	.01003	-.17626	.12745	95.55662
10.330	-6.332	.00969	.09181	-.16030	-.03056	-.00157	-.00484	.00846	-.14920	.10893	95.70789
10.330	-4.203	.00268	.08436	-.12848	-.02809	-.00208	-.00409	.00965	-.12196	.09355	95.84317
10.330	-2.338	.00231	.07844	-.10173	-.02603	-.00203	-.00382	.00841	-.09844	.08252	95.79290
10.330	-.168	.00064	.07154	-.07181	-.02134	-.00263	-.00336	.00650	-.07160	.07175	95.60469
10.330	1.884	-.00019	.06827	-.04278	-.01721	-.00283	-.00335	.00573	-.04500	.06682	95.74871
10.330	4.046	-.00420	.06463	-.00929	-.01219	-.00313	-.00314	.00483	-.01383	.06381	95.62645
10.330	5.957	-.00784	.06172	.02189	-.00754	-.00341	-.00302	.00501	.01536	.06366	95.73703
10.330	7.938	-.00813	.05959	.06130	-.00296	-.00352	-.00287	.00528	.05248	.06748	95.51138
10.330	10.105	-.01183	.05626	.10701	.00270	-.00345	-.00235	.00357	.09548	.07416	95.52359
10.330	15.102	-.02371	.05470	.24605	.00797	-.00566	-.00250	.00459	.22329	.11692	95.51313
10.330	20.140	-.03163	.05569	.42470	.01206	-.00631	-.00240	.00365	.37955	.19852	95.52228
10.330	25.276	-.03810	.05671	.63810	.01140	-.00686	-.00261	.00209	.55279	.32373	95.60524
10.330	30.465	-.04528	.05662	.87637	.00321	-.00733	-.00277	.00111	.72667	.49313	95.56593
10.330	35.569	-.05391	.05509	1.12058	-.01012	-.00793	-.00313	-.00023	.87945	.69664	95.51012
	GRADIENT	-.00079	-.00239	.01435	.00197	-.00014	.00011	-.00059	.01302	-.00361	-.02306

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 195

01N79 LARC CFHT 118 (MA-22)

(RJA270) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 1.000

RUN NO. 270/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.363	.01568	.09182	-.21577	-.02016	-.00552	-.00637	.02275	-.20013	.12222	191.56616
10.330	-6.409	.00644	.08349	-.18807	-.01499	-.00635	-.00463	.02029	-.17758	.10396	191.43697
10.330	-4.268	.00566	.07497	-.15304	-.01470	-.00660	-.00459	.01664	-.14704	.08615	191.14582
10.330	-2.236	.00931	.06945	-.12289	-.01280	-.00635	-.00539	.01377	-.12009	.07419	191.37255
10.330	-.234	.00732	.06515	-.09481	-.01053	-.00573	-.00523	.01022	-.09455	.06554	191.64673
10.330	2.035	.00161	.06091	-.06017	-.00534	-.00583	-.00498	.00960	-.06230	.05874	191.52148
10.330	3.791	.00290	.05816	-.03246	-.00130	-.00575	-.00509	.00966	-.03623	.05589	191.49088
10.330	5.976	-.00215	.05480	.00462	.00389	-.00611	-.00491	.00988	-.00111	.05499	191.04796
10.330	7.972	-.00593	.05261	.04498	.00773	-.00624	-.00468	.01009	.03725	.05834	191.36573
10.330	10.176	-.01171	.04965	.09532	.01103	-.00654	-.00438	.00986	.08505	.06571	191.36589
10.330	15.185	-.02655	.04819	.23389	.01773	-.00833	-.00420	.01022	.21310	.10778	191.27903
10.330	20.245	-.04159	.04930	.40975	.02418	-.00967	-.00416	.01031	.36738	.18805	191.05954
10.330	25.556	-.05587	.05101	.63006	.02451	-.01076	-.00444	.00935	.54641	.31782	190.98569
10.330	30.649	-.06751	.05034	.86392	.01696	-.01135	-.00461	.00784	.71758	.48370	191.33923
10.330	35.792	-.07921	.04928	1.11117	.00267	-.01184	-.00503	.00647	.87250	.68983	191.32342
	GRADIENT	-.00066	-.00207	.01490	.00168	.00011	-.00003	-.00089	.01370	-.00373	.04115

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 198

01N79N78 LARC CFHT 118 (MA-22)

(RJA271) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 271/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.160	-.00564	.09979	-.18553	-.03920	-.00041	-.00131	-.00253	-.16949	.12511	95.08323
10.330	-8.416	-.00709	.09338	-.15952	-.03412	-.00105	-.00071	-.00234	-.14809	.11062	94.92419
10.330	-4.309	-.01069	.08604	-.12803	-.03072	-.00128	-.00018	-.00166	-.12120	.09542	94.94592
10.330	-2.141	-.01813	.07793	-.09538	-.03095	-.00260	.00165	-.00909	-.09240	.08144	94.81584
10.330	-.152	-.02357	.07239	-.06677	-.02945	-.00325	.00286	-.00956	-.06658	.07257	95.01627
10.330	1.880	-.03009	.06855	-.04338	-.02394	-.00453	.00393	-.01116	-.04561	.06709	94.82689
10.330	4.045	-.03282	.06617	-.01055	-.01799	-.00509	.00394	-.01079	-.01519	.06526	94.82231
10.330	5.766	-.03297	.06397	.01776	-.01257	-.00533	.00364	-.01023	.01125	.06543	94.84678
10.330	7.932	-.03309	.06084	.05982	-.00818	-.00514	.00271	-.00740	.05086	.06851	95.00037
10.330	10.155	-.03230	.05791	.10848	-.00359	-.00511	.00206	-.00586	.09657	.07612	94.92766
10.330	15.107	-.02333	.05710	.25205	.00117	-.00456	-.00065	-.00116	.22845	.12082	94.82390
10.330	20.123	-.03121	.05793	.43184	.00520	-.00486	-.00029	-.00296	.38555	.20296	94.87908
10.330	25.443	-.03753	.05919	.65165	.00435	-.00557	.00002	-.00556	.56302	.33340	94.88272
10.330	30.598	-.03842	.05866	.88858	-.00267	-.00547	-.00046	-.00714	.73500	.50278	94.77204
10.330	35.715	-.04230	.05733	1.13520	-.01751	-.00582	-.00136	-.00752	.88824	.70923	94.90239
	GRADIENT	-.00271	-.00237	.01385	.00157	-.00046	.00051	-.00098	.01249	-.00360	-.01156

DATE 13 APR 78

MA22 - FORCE SOURCE DATA TABULATION

PAGE 187

OIN79N78 LARC CFHT 118 (MA-22)

(RJA272) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 272/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.374	-.00615	.09468	-.19797	-.03253	-.00310	-.00044	-.00048	-.18207	.12250	189.72685
10.330	-6.266	-.01471	.08680	-.16463	-.02734	-.00399	.00185	-.00593	-.15417	.10425	189.49934
10.330	-4.299	-.02227	.08019	-.13723	-.02486	-.00504	.00318	-.00556	-.13084	.09025	188.97534
10.330	-2.298	-.03617	.07297	-.11459	-.02692	-.00815	.00741	-.01848	-.11157	.07751	189.20212
10.330	-.267	-.04386	.06831	-.09259	-.02304	-.00882	.00806	-.01996	-.09237	.06874	189.20908
10.330	2.026	-.04418	.06497	-.06191	-.01718	-.00839	.00648	-.01448	-.06416	.06274	189.31388
10.330	3.785	-.04097	.06197	-.03390	-.01242	-.00796	.00516	-.01163	-.03792	.05960	189.27359
10.330	5.948	-.03764	.05865	.00357	-.00653	-.00725	.00354	-.00842	-.00253	.05870	188.88584
10.330	7.941	-.03125	.05573	.04542	-.00349	-.00623	.00187	-.00462	.03728	.06147	188.70154
10.330	10.144	-.02839	.05331	.09711	-.00001	-.00588	.00051	-.00129	.08620	.06958	189.15442
10.330	15.110	-.03312	.05235	.23531	.00658	-.00699	-.00067	.00082	.21353	.11188	189.21171
10.330	20.127	-.04241	.05431	.41474	.01088	-.00746	-.00052	-.00056	.37073	.19370	189.19262
10.330	25.402	-.05104	.05537	.63608	.01062	-.00796	-.00051	-.00255	.55083	.32287	189.33255
10.330	30.553	-.05582	.05489	.87251	.00358	-.00808	-.00082	-.00360	.72347	.49079	189.31636
10.330	35.608	-.06412	.05357	1.11651	-.01044	-.00855	-.00117	-.00501	.87655	.69363	189.02443
	GRADIENT	-.00222	-.00217	.01264	.00169	-.00030	.00015	-.00039	.01137	-.00371	.03478

01N79N78 LARC CFHT 118 (MA-22)

(RJA273) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 273/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.354	-.04206	.08059	-.22779	-.01655	-.01407	.01141	-.01662	-.21366	.11283	379.15583
10.330	-6.379	-.04921	.07419	-.19863	-.00947	-.01386	.01141	-.01453	-.18916	.09580	378.84832
10.330	-4.260	-.06180	.06875	-.17447	-.00857	-.01867	.01614	-.03579	-.16888	.08152	378.20423
10.330	-2.111	-.05694	.06301	-.14596	-.00896	-.01680	.01286	-.02919	-.14354	.06834	378.25612
10.330	-.134	-.05047	.05876	-.12027	-.00772	-.01481	.00936	-.01823	-.12013	.05904	378.34797
10.330	1.945	-.04247	.05585	-.09036	-.00526	-.01241	.00514	-.00956	-.09220	.05275	378.11666
10.330	3.857	-.03506	.05399	-.06023	-.00117	-.01077	.00266	-.00510	-.06373	.04981	378.14851
10.330	5.828	-.02711	.05113	-.02496	.00255	-.00912	.00047	-.00120	-.03002	.04833	378.11325
10.330	7.947	-.02216	.04837	.02080	.00652	-.00796	-.00135	.00274	.01391	.05078	377.88190
10.330	10.023	-.02660	.04653	.06918	.00916	-.00796	-.00146	.00313	.06002	.05786	377.08866
10.330	15.384	-.04621	.04508	.22213	.01676	-.01034	-.00074	.00264	.20221	.10239	377.41198
10.330	20.432	-.06366	.04695	.39968	.02234	-.01181	-.00032	.00201	.35814	.18352	377.42818
10.330	25.522	-.07879	.04792	.61321	.02446	-.01254	.00011	-.00120	.53273	.30745	377.66684
10.330	30.636	-.08931	.04796	.85161	.01666	-.01296	-.00044	-.00158	.70831	.47522	377.63872
10.330	35.743	-.10257	.04672	1.09739	.00262	-.01349	-.00069	-.00359	.86341	.67895	377.50333
	GRADIENT	.00334	-.00181	.01399	.00090	.00100	-.00171	.00399	.01289	-.00391	-.01230

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(RJA274) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 274/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.410	-.00963	.10503	-.17958	-.04624	.00047	-.00053	-.00444	-.16229	.13016	-.09241
10.330	-6.300	-.00962	.09751	-.14876	-.03989	.00020	-.00057	-.00417	-.13717	.11324	-.12315
10.330	-4.192	-.00951	.09104	-.11595	-.03638	.00026	-.00063	-.00371	-.10898	.09927	-.09236
10.330	-2.360	-.00862	.08201	-.08646	-.03615	.00018	-.00062	-.00395	-.08301	.08550	-.09238
10.330	-.213	-.00820	.07662	-.05523	-.03260	.00009	-.00060	-.00367	-.05494	.07682	-.06159
10.330	1.856	-.00747	.07314	-.02581	-.02793	.00003	-.00067	-.00323	-.02817	.07227	-.06158
10.330	4.038	-.00881	.06979	.00761	-.02312	-.00007	-.00067	-.00308	.00267	.07015	-.06156
10.330	5.979	-.00827	.06681	.03803	-.01823	.00003	-.00059	-.00333	.03086	.07041	-.09238
10.330	7.957	-.00800	.06531	.07822	-.01466	-.00022	-.00072	-.00326	.06842	.07551	-.09235
10.330	10.125	-.00593	.05968	.11640	-.00889	.00042	-.00068	-.00447	.10410	.07921	-.09238
10.330	14.966	-.00645	.06208	.26606	-.00644	-.00056	-.00107	-.00427	.24100	.12868	-.06160
10.330	20.321	-.00836	.06316	.45436	-.00293	-.00090	-.00103	-.00596	.40414	.21702	-.12314
10.330	25.415	-.00967	.06372	.66392	-.00424	-.00136	-.00094	-.00803	.57232	.34248	-.09239
10.330	30.567	-.01169	.06300	.89822	-.01164	-.00168	-.00088	-.00975	.74137	.51103	-.06160
10.330	35.640	-.01608	.06193	1.14071	-.02559	-.00214	-.00081	-.01222	.89096	.71501	-.12316
	GRADIENT	.00012	-.00247	.01488	.00169	-.00004	-.00001	.00010	.01345	-.00342	.00447

ORIGINAL PAGE IS
OF POOR QUALITY

01N79N78 LARC CFHT 118 (MA-22)

(RJA275) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 275/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.207	-.01331	.12850	-.23690	-.00762	.00127	-.00048	-.00418	-.21813	.18100	-.12340
10.330	-6.284	-.00972	.11727	-.20019	-.00667	.00063	-.00074	-.00349	-.18615	.13848	-.06171
10.330	-4.203	-.01001	.10450	-.15435	-.01301	.00075	-.00050	-.00379	-.14628	.11553	-.03088
10.330	-2.193	-.00960	.09247	-.11414	-.01690	.00066	-.00053	-.00360	-.11052	.09677	-.06170
10.330	-.208	-.00932	.08597	-.08062	-.01640	.00052	-.00055	-.00338	-.08031	.08626	-.06171
10.330	1.847	-.01090	.08115	-.04722	-.01419	.00038	-.00061	-.00295	-.04982	.07959	-.06168
10.330	3.916	-.01068	.07558	-.01146	-.01152	.00026	-.00064	-.00280	-.01660	.07462	-.09254
10.330	6.049	-.00971	.07084	.02619	-.00747	.00016	-.00068	-.00298	.01858	.07320	-.06170
10.330	7.830	-.00731	.06831	.06036	-.00348	.00009	-.00075	-.00324	.05050	.07589	-.06170
10.330	10.076	-.00654	.06691	.11130	.00006	.00002	-.00089	-.00331	.09789	.08525	-.03085
10.330	14.985	-.00574	.06400	.24448	.00906	-.00022	-.00114	-.00412	.21962	.12503	-.06169
10.330	20.356	-.00516	.06506	.42376	.02056	-.00038	-.00126	-.00572	.37466	.20840	-.12335
10.330	25.528	-.00421	.06580	.62242	.03091	-.00055	-.00123	-.00771	.53330	.32761	-.03084
10.330	30.594	-.00518	.06549	.83417	.03703	-.00082	-.00114	-.00961	.68472	.48092	-.09253
10.330	35.852	-.00484	.06468	1.06871	.03817	-.00108	-.00118	-.01155	.82834	.67836	-.03084
	GRADIENT	-.00013	-.00341	.01739	.00028	-.00006	-.00002	.00013	.01578	-.00487	-.00609

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(RJA276) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZC
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = -30.000 BOFLAP = -14.250
 NOJET = 2.000

RUN NO. 276/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/OA
10.330	-8.286	-.01504	.12285	-.24468	-.00186	.00058	-.00012	-.00540	-.22443	.15683	95.05529
10.330	-6.328	-.01329	.11101	-.20751	-.00109	-.00029	-.00002	-.00483	-.19401	.13321	94.96053
10.330	-4.216	-.01874	.09760	-.16467	-.01033	-.00127	.00170	-.00873	-.15705	.10944	94.77936
10.330	-2.242	-.02351	.08774	-.12498	-.01559	-.00191	.00294	-.01008	-.12145	.09256	94.91455
10.330	-.254	-.02738	.08057	-.09318	-.01771	-.00257	.00369	-.01051	-.09282	.08098	95.00810
10.330	2.007	-.03233	.07459	-.05677	-.01409	-.00328	.00442	-.01110	-.05935	.07255	94.98191
10.330	3.935	-.03323	.07017	-.02619	-.00993	-.00347	.00438	-.01062	-.03094	.06821	94.70506
10.330	5.922	-.03218	.06640	.01029	-.00612	-.00330	.00380	-.00999	.00338	.06711	94.97774
10.330	8.078	-.03154	.06253	.05560	-.00122	-.00295	.00307	-.00798	.04626	.06973	94.87136
10.330	10.096	-.02840	.05854	.09904	.00220	-.00285	.00218	-.00520	.08725	.07499	95.09910
10.330	15.338	-.01692	.05673	.24501	.01155	-.00180	-.00082	-.00059	.22128	.11952	94.93478
10.330	20.456	-.02111	.05791	.41527	.02399	-.00271	-.00064	-.00280	.36884	.19939	94.93779
10.330	25.577	-.02720	.05927	.61197	.03562	-.00346	-.00006	-.00545	.52642	.31766	94.91356
10.330	30.624	-.02132	.05885	.82026	.04310	-.00286	-.00103	-.00586	.67588	.46849	94.76543
10.330	35.701	-.02180	.05796	1.04113	.04518	-.00347	-.00218	-.00592	.81165	.65462	94.98469
	GRADIENT	-.00184	-.00330	.01679	.00012	-.00028	.00033	-.00023	.01529	-.00497	-.00405

01N79N78 LARC CFHT 118 (MA-22)

(RJA277) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = -30.000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 277/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.300	-.01332	.12831	-.23868	-.00816	.00123	-.00041	-.00361	-.21765	.16142	.00000
10.330	-6.072	-.00888	.11559	-.19718	-.00704	.00059	-.00072	-.00292	-.18384	.13579	.00000
10.330	-4.203	-.01115	.10372	-.15551	-.01280	.00062	-.00042	-.00341	-.14749	.11483	.00000
10.330	-2.235	-.00997	.09236	-.11659	-.01671	.00052	-.00051	-.00318	-.11290	.09683	.00000
10.330	-.208	-.00856	.08546	-.08114	-.01622	.00048	-.00050	-.00305	-.08083	.08578	.00000
10.330	2.018	-.00942	.08008	-.04451	-.01434	.00033	-.00058	-.00265	-.04731	.07846	.00000
10.330	4.126	-.00810	.07416	-.00979	-.01126	.00024	-.00057	-.00269	-.01510	.07326	.00000
10.330	5.938	-.00898	.07018	.02169	-.00776	.00016	-.00062	-.00275	.01431	.07205	.00000
10.330	8.046	-.00789	.06719	.06554	-.00333	.00007	-.00067	-.00305	.05549	.07570	.00000
10.330	10.186	-.00779	.06446	.11257	.00088	-.00005	-.00077	-.00348	.09940	.08335	.00000
10.330	15.339	-.00541	.06290	.25364	.00963	-.00020	-.00105	-.00422	.22796	.12775	.00000
10.330	20.391	-.00337	.06433	.42437	.02073	-.00029	-.00111	-.00555	.37537	.20816	.00000
10.330	25.543	-.00280	.06482	.61656	.03058	-.00048	-.00110	-.00768	.52835	.32434	.00000
10.330	30.598	-.00339	.06462	.82889	.03655	-.00069	-.00104	-.00933	.68059	.47754	.00000
10.330	35.950	-.00395	.06376	1.06697	.03776	-.00097	-.00107	-.01168	.82630	.67802	.00000
	GRADIENT	.00031	-.00340	.01737	.00027	-.00005	-.00002	.00009	.01579	-.00483	.00000

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 1'S (MA-22)

(RJ278) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BDFLAP = -14.250
 NOJET = 2.000

RUN NO. 278/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/QA
10.330	-8.365	-.01580	.11829	-.25096	.00155	-.00059	.00096	-.00627	-.23108	.15355	189.27508
10.330	-6.092	-.02093	.10468	-.20983	.00123	-.00315	.00301	-.00613	-.19753	.12635	189.22316
10.330	-4.206	-.03892	.09273	-.17256	-.00857	-.00607	.00791	-.02006	-.16529	.10514	189.18837
10.330	-2.210	-.04645	.08371	-.13918	-.01334	-.00656	.00888	-.02005	-.13585	.08902	189.06767
10.330	-.116	-.04757	.07680	-.10653	-.01313	-.00631	.00857	-.01904	-.10637	.07702	188.84719
10.330	1.882	-.04432	.07116	-.07705	-.01056	-.00567	.00706	-.01506	-.07935	.06859	188.02645
10.330	3.908	-.04170	.06563	-.04132	-.00686	-.00516	.00552	-.01117	-.04569	.06267	188.88693
10.330	6.027	-.03525	.06064	-.00071	-.00289	-.00448	.00372	-.00739	-.00707	.06023	189.08093
10.330	7.982	-.03051	.05708	.04011	.00090	-.00381	.00223	-.00351	.03179	.06209	188.89944
10.330	10.000	-.02530	.05447	.08814	.00493	-.00325	.00108	-.00093	.07727	.06903	188.74218
10.330	15.228	-.02443	.05192	.22859	.01491	-.00352	-.00084	.00294	.20692	.11014	188.87272
10.330	20.331	-.02377	.05325	.40098	.02689	-.00381	-.00125	.00163	.35750	.18926	188.82359
10.330	25.475	-.02972	.05434	.59373	.03881	-.00437	-.00109	-.00106	.51263	.30443	188.71485
10.330	30.520	-.02904	.05389	.80512	.04556	-.00417	-.00169	-.00165	.66621	.45529	188.92258
10.330	35.658	-.03129	.05251	1.03331	.04730	-.00442	-.00209	-.00299	.80897	.64502	189.05224
	GRADIENT	-.00017	-.00328	.01597	.00030	.00013	-.00032	.00112	.01455	-.00519	-.02395

01N79N78 LARC CFHT 118 (MA-22)

(RJA279) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 279/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.075	-.04044	.10807	-.26381	.01393	-.00713	.00940	-.01974	-.24601	.14408	378.47827
10.330	-6.357	-.06536	.09672	-.23758	.01146	-.01293	.01708	-.03860	-.22541	.12243	378.26092
10.330	-4.191	-.07090	.08283	-.19353	.00008	-.01239	.01649	-.03399	-.18696	.09676	378.12588
10.330	-2.232	-.06500	.07405	-.15827	-.00410	-.01164	.01381	-.02903	-.15527	.08015	378.02578
10.330	-.163	-.05588	.06699	-.12657	-.00361	-.01020	.01016	-.01867	-.12638	.06735	377.01891
10.330	1.889	-.04302	.06205	-.09893	-.00255	-.00856	.00608	-.00851	-.10092	.05875	377.42010
10.330	3.908	-.03207	.05830	-.06616	.00103	-.00741	.00301	-.00220	-.06999	.05365	377.43332
10.330	5.974	-.02525	.05360	-.02677	.00431	-.00610	.00062	.00181	-.03220	.05052	376.91500
10.330	8.136	-.02229	.04950	.02062	.00875	-.00515	-.00092	.00442	.01340	.05192	376.90094
10.330	10.231	-.02499	.04678	.07066	.01274	-.00526	-.00117	.00487	.06123	.05858	377.51752
10.330	15.182	-.03338	.04449	.20894	.02242	-.00662	-.00096	.00612	.09000	.09766	377.28891
10.330	20.344	-.03852	.04404	.37877	.03577	-.00582	.00010	.00193	.33983	.17297	376.92077
10.330	25.553	-.04531	.04511	.58108	.04535	-.00632	-.00050	.00162	.50479	.29134	377.22287
10.330	30.667	-.04729	.04491	.79931	.05094	-.00661	-.00152	.00203	.66461	.44631	376.97632
10.330	35.848	-.05181	.04317	1.02897	.05276	-.00681	-.00188	.00091	.80878	.63760	377.09904
10.330	GRADIENT	.00491	-.00300	.01545	.00017	.00064	-.00171	.00414	.01418	-.00529	-.09802

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MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 11B (MA-22)

(RJA280) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 1.000

RUN NO. 280/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.113	-.00636	.12381	-.23879	-.00402	.00095	-.00212	.00079	-.21893	.15627	48.01418
10.330	-6.262	-.00313	.11388	-.20507	-.00335	.00009	-.00282	.00498	-.19142	.13557	47.93015
10.330	-4.219	-.00657	.10083	-.15959	-.01072	.00038	-.00205	.00434	-.15174	.11230	48.03257
10.330	-2.220	-.00464	.09060	-.11782	-.01473	.00058	-.00203	.00226	-.11422	.09509	48.06212
10.330	-.224	-.00685	.08395	-.08252	-.01447	.00036	-.00155	.00106	-.08219	.08427	47.93754
10.330	1.997	-.00654	.07792	-.04558	-.01255	.00019	-.00165	.00152	-.04827	.07628	47.97429
10.330	4.152	-.00712	.07213	-.01060	-.00917	.00007	-.00170	.00182	-.01580	.07117	48.05688
10.330	6.016	-.00602	.06802	.02258	-.00571	.00001	-.00172	.00212	.01533	.07002	48.04882
10.330	8.214	-.00588	.06398	.06791	-.00162	.00013	-.00164	.00240	.05807	.07303	48.11595
10.330	10.063	-.00651	.06123	.10927	.00241	-.00009	-.00163	.00260	.09689	.07938	48.06033
10.330	15.166	-.01008	.05844	.24504	.01265	-.00110	-.00181	.00188	.22121	.12051	48.08768
10.330	20.343	-.00781	.05902	.41586	.02481	-.00162	-.00224	.00120	.36941	.19291	48.12505
10.330	25.551	-.00908	.05987	.61463	.03534	-.00186	-.00244	-.00047	.52869	.319.1	48.03954
10.330	30.664	-.01442	.05956	.82827	.04232	-.00247	-.00243	-.00235	.68208	.47365	48.13561
10.330	35.761	-.01954	.05862	1.05083	.04493	-.00334	-.00297	-.00379	.81846	.66168	48.10493
	GRADIENT	-.00014	-.00333	.01764	.00027	-.00005	.00005	-.00027	.01610	-.00480	-.00159

01N79 LARC CFHT 118 (MA-22)

(RJA281) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 1.000

RUN NO. 281/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/OA
10.330	-8.386	.00101	.12331	-.24443	-.00191	.00063	-.00391	.00534	-.22384	.15764	95.56977
10.330	-6.276	.00013	.11061	-.20678	-.00083	-.00046	-.00373	.00977	-.19345	.13255	95.44452
10.330	-4.257	-.00021	.09802	-.16230	-.00772	-.00013	-.00341	.00851	-.15458	.10980	95.53661
10.330	-2.255	-.00174	.08709	-.12149	-.01209	.00013	-.00298	.00595	-.11797	.09181	95.50281
10.330	-.103	-.00532	.07852	-.08362	-.01234	-.00003	-.00228	.00381	-.08348	.07867	95.42884
10.330	1.916	-.00388	.07340	-.05235	-.01002	-.00018	-.00222	.00374	-.05478	.07161	95.46805
10.330	3.979	-.00598	.06847	-.01821	-.00647	-.00040	-.00228	.00415	-.02291	.06705	95.35289
10.330	5.981	-.00637	.06457	.01667	-.00231	-.00069	-.00242	.00496	.00986	.06596	95.42584
10.330	7.961	-.00609	.06115	.05806	.00184	-.00093	-.00244	.00537	.04903	.06860	95.44249
10.330	10.036	-.00883	.05798	.10193	.00659	-.00142	-.00224	.00557	.09027	.07485	95.40056
10.330	15.022	-.01105	.05418	.23389	.01649	-.00236	-.00267	.00630	.21185	.11295	95.43026
10.330	20.361	-.01222	.05496	.41261	.02887	-.00269	-.00327	.00564	.36770	.19509	95.30989
10.330	25.518	-.01568	.05598	.60779	.03936	-.00321	-.00364	.00440	.52439	.31235	95.41275
10.330	30.637	-.01886	.05534	.82255	.04556	-.00360	-.00367	.00315	.67953	.46679	95.35263
10.330	35.702	-.02180	.05348	1.04416	.04786	-.00393	-.00408	.00217	.81672	.65277	95.38169
	GRADIENT	-.00066	-.00353	.01731	.00022	-.00004	.00015	-.00053	.01582	-.00512	-.01952

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MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (MA-22)

(RJA282) (12 JAN 78)

REFERENCE DATA

SREF * 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF * 474.8000 INCHES YMRP = .0000 IN. YO
 BREF * 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 1.000

RUN NO. 282/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.240	.01033	.11610	-.24868	.00693	-.00051	-.00597	.01430	-.22947	.15054	191.57013
10.330	-6.277	.00028	.10270	-.21414	.00597	-.00141	-.00405	.01612	-.20163	.12550	191.59867
10.330	-4.241	.00365	.08944	-.16637	-.00080	-.00103	-.00477	.01426	-.15930	.10149	191.23886
10.330	-2.060	.00281	.07825	-.12329	-.00658	-.00095	-.00429	.01055	-.12040	.08263	191.12780
10.330	-.097	.00218	.07151	-.09579	-.00535	-.00165	-.00401	.00935	-.09567	.07167	191.41164
10.330	1.919	.00227	.06609	-.06480	-.00241	-.00195	-.00421	.00940	-.06697	.06388	191.00760
10.330	3.954	.00007	.06142	-.03079	.00177	-.00234	-.00430	.00972	-.03495	.05915	191.40199
10.330	5.966	-.00077	.05747	.00396	.00597	-.00287	-.00433	.01026	-.00204	.05757	191.31026
10.330	8.007	-.00353	.05401	.04580	.01019	-.00337	-.00420	.01081	.03783	.05986	191.16451
10.330	10.086	-.00719	.05073	.09110	.01447	-.00381	-.00404	.01109	.08080	.06590	191.29454
10.330	15.148	-.01532	.04755	.22705	.02425	-.00455	-.00425	.01158	.20673	.10523	190.87285
10.330	20.215	-.01597	.04720	.39470	.03607	-.00442	-.00455	.01187	.35408	.18068	191.10521
10.330	25.647	-.02009	.04762	.60291	.04663	-.00470	-.00528	.01170	.52290	.30388	191.19435
10.330	30.749	-.02574	.04720	.81828	.05229	-.00518	-.00581	.01148	.67911	.45893	191.17759
10.330	35.845	-.02975	.04513	1.03953	.05428	-.00525	-.00615	.01075	.81622	.64532	190.89418
	GRADIENT	-.00038	-.00336	.01620	.00044	-.00018	.00005	-.00050	.01484	-.00509	.00994

01N85N50 LARC CFHT 118 (MA-22)

(RJA283) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = -30.000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 283/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.313	-.02925	.12097	-.26140	.00554	.00162	.00171	.00143	-.24116	.15749	94.48928
10.330	-6.358	-.02048	.10750	-.22068	.00240	.00103	.00102	-.00054	-.20742	.13128	94.41608
10.330	-4.068	-.01744	.09235	-.16751	-.00849	.00118	.00056	-.00085	-.16053	.10400	94.20611
10.330	-2.365	-.01353	.08377	-.13539	-.01427	.00149	-.00014	-.00241	-.13181	.08929	94.22054
10.330	-.113	-.00945	.07565	-.09797	-.01402	.00156	-.00049	-.00184	-.09782	.07584	94.20515
10.330	1.884	-.00745	.06927	-.06609	-.01107	.00153	-.00092	-.00038	-.06833	.06706	94.15557
10.330	3.961	-.00363	.06406	-.02984	-.00499	.00168	-.00186	.00185	-.03419	.06185	94.11220
10.330	5.945	-.00509	.06008	.00459	-.00140	.00210	-.00098	-.00195	-.00166	.06023	94.15331
10.330	8.003	-.00640	.05673	.04466	.00486	.00113	-.00092	-.00149	.03633	.06240	94.00589
10.330	10.022	-.00689	.05356	.05768	.00681	.00076	-.00054	-.00234	.07702	.06800	93.95761
10.330	15.244	-.00933	.05034	.22882	.01954	-.00033	-.00008	-.00723	.20754	.10873	93.94952
10.330	20.386	-.01375	.05134	.39581	.03267	-.00096	.00059	-.00860	.35314	.18600	94.03970
10.330	25.569	-.01324	.05310	.59330	.04326	-.00115	.00092	-.01110	.51228	.30396	94.08943
10.330	30.543	-.01428	.05271	.80079	.05029	-.00133	.00124	-.01373	.66289	.45235	93.82083
10.330	35.860	-.02249	.05262	1.02707	.05515	-.00290	.00071	-.01624	.80156	.64432	93.97985
	GRADIENT	.00166	-.00349	.01696	.00053	.00005	-.00028	.00037	.01556	-.00522	-.01258

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 209

01N85N50 LARC CFHT 118 (MA-22)

(RJA284) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = -30.000 BDFLAP = -14.250
 NO.JET = 2.000

- RUN NO. 284/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.180	-.03707	.10990	-.26726	.01162	.00218	.00348	-.00014	-.24890	.14681	188.63468
10.330	-6.252	-.02349	.09804	-.22925	.00787	.00178	.00117	-.00058	-.21721	.12242	188.96644
10.330	-4.222	-.01735	.08517	-.18608	.00029	.00244	.00054	-.00266	-.17931	.09864	188.42747
10.330	-2.065	-.01475	.07204	-.14642	-.00414	.00249	.00018	-.00198	-.14366	.07926	188.47410
10.330	-.111	-.01621	.06621	-.11423	-.00607	.00217	.00066	-.00296	-.11410	.06643	188.77029
10.330	1.904	-.01184	.06062	-.08835	-.00369	.00221	.00045	-.00440	-.09031	.05765	188.54582
10.330	3.975	-.01110	.05579	-.05653	.00090	.00262	.00057	-.00433	-.06026	.05174	188.16069
10.330	5.955	-.01034	.05183	-.02294	.00480	.00351	.00101	-.00632	-.02819	.04917	188.63368
10.330	7.981	-.00354	.04795	.02290	.01140	.00277	-.00076	-.00187	.01602	.05067	188.34867
10.330	10.053	-.00694	.04512	.06692	.01546	.00225	.00015	-.00374	.05801	.05511	188.54660
10.330	15.232	-.01760	.04239	.20555	.03159	-.00101	.00154	-.00983	.18719	.09491	188.38086
10.330	20.399	-.02062	.04164	.37388	.04327	-.00112	.00245	-.01238	.33592	.16934	188.59330
10.330	25.531	-.01989	.04189	.57093	.05318	-.00116	.00278	-.01456	.49712	.28387	188.30345
10.330	30.679	-.02425	.04222	.78328	.06121	-.00211	.00314	-.01830	.65211	.43596	188.62321
10.330	35.748	-.02830	.04279	1.00173	.06492	-.00279	.00295	-.02073	.78830	.61954	188.44076
	GRADIENT	.00076	-.00355	.01558	.00008	.00000	.00002	-.00028	.01432	-.00567	-.02277

ORIGINAL PAGE IS
OF POOR QUALITY

01N85N50 LARC CFHT 118 (MA-22)

(RJA285) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = -30.000 SOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 285/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.090	-.04501	.10189	-.27190	.01821	.00308	.00447	.00158	-.25488	.13914	254.29725
10.330	-6.422	-.02754	.09120	-.24163	.01242	.00295	.00177	-.00290	-.22991	.11765	253.96709
10.330	-4.066	-.02397	.07753	-.19314	.00553	.00311	.00134	-.00374	-.18716	.09103	253.76362
10.330	-2.151	-.01717	.06851	-.15897	.00371	.00268	.00074	-.00220	-.15628	.07443	253.62993
10.330	-.186	-.01863	.06097	-.12781	.00289	.00263	.00117	-.00350	-.12762	.06139	253.66339
10.330	2.050	-.01701	.05459	-.09964	.00472	.00325	.00122	-.00402	-.10153	.05099	253.69359
10.330	3.930	-.01466	.05148	-.07714	.00775	.00381	.00143	-.00541	-.08048	.04607	253.28368
10.330	5.947	-.01414	.04831	-.04347	.01066	.00477	.00201	-.00806	-.04824	.04355	253.30920
10.330	8.008	-.01140	.04374	.00589	.01794	.00375	.00172	-.00726	-.00016	.04415	253.19056
10.330	10.051	-.00942	.04065	.05138	.02182	.00285	.00137	-.00670	.04350	.04899	253.00378
10.330	15.243	-.02582	.03752	.18895	.03979	-.00113	.00346	-.01219	.17244	.08587	253.23274
10.330	20.360	-.02861	.03671	.35845	.05086	-.00152	.00397	-.01443	.32328	.15912	253.54213
10.330	25.519	-.03043	.03654	.55469	.06097	-.00220	.00408	-.01725	.48484	.27194	253.34845
10.330	30.683	-.03480	.03605	.77033	.06767	-.00281	.00437	-.02142	.64409	.42410	253.18394
10.330	35.714	-.03338	.03552	.98887	.07088	-.00296	.00428	-.02416	.78217	.60609	253.14017
	GRADIENT	.00092	-.00327	.01441	.00027	.00010	.00003	-.00026	.01326	-.00560	-.04386

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 211

01N49 LARC CFHT 118 (MA-22)

(RJA286) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = -30.000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 286/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.230	.00313	.12061	-.23894	-.00096	.00058	-.00427	.00618	-.21922	.15357	94.91424
10.330	-6.277	-.00020	.10830	-.20476	.00030	-.00056	-.00381	.00931	-.19169	.13003	94.90993
10.330	-4.193	.00069	.09513	-.15872	-.00684	-.00021	-.00351	.00805	-.15134	.10548	94.94669
10.330	-2.195	-.00160	.08526	-.11989	-.01088	.00015	-.00306	.00549	-.11653	.08978	94.73364
10.330	-.216	-.00498	.07776	-.08643	-.01081	.00006	-.00245	.00367	-.08614	.07809	94.72623
10.330	1.981	-.00356	.07182	-.05027	-.00865	-.00027	-.00245	.00326	-.05272	.07004	94.70991
10.330	3.892	-.00351	.06730	-.01922	-.00538	-.00042	-.00261	.00404	-.02375	.06584	94.75756
10.330	6.087	-.00224	.06289	.01870	-.00090	-.00073	-.00272	.00475	.01193	.06452	94.59880
10.330	7.941	-.00432	.05970	.05387	.00278	-.00094	-.00274	.00514	.04511	.06657	94.79036
10.330	10.113	-.00762	.05678	.10212	.00738	-.00119	-.00258	.00544	.09057	.07383	94.46016
10.330	15.374	-.01079	.05291	.24147	.01708	-.00219	-.00262	.00605	.21880	.11504	94.49625
10.330	20.528	-.01266	.05406	.41045	.02918	-.00287	-.00330	.00527	.36543	.19456	94.44913
10.330	25.428	-.01450	.05503	.59619	.03927	-.00320	-.00366	.00387	.51481	.30569	94.77431
10.330	30.627	-.01986	.05468	.80932	.04594	-.00367	-.00377	.00246	.66857	.45936	94.60422
10.330	35.861	-.02402	.05304	1.03429	.04892	-.00416	-.00427	.00119	.80716	.64896	94.81178
	GRADIENT	-.00051	-.00339	.01713	.00026	-.00004	.00012	-.00050	.01568	-.00496	-.01969

01N49 LARC CFHT 118 (MA-22)

(RJA287) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = -30.000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 287/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEL	CYN	CY	CL	CO	T/OA
10.330	-8.097	.01042	.11262	-.24410	.00885	-.00057	-.00606	.01423	-.22581	.14587	188.70699
10.330	-6.391	.00015	.10148	-.21513	.00833	-.00145	-.00454	.01595	-.20250	.12480	188.89905
10.330	-4.054	.00491	.08654	-.16106	.00022	-.00088	-.00509	.01387	-.15454	.09771	188.79100
10.330	-2.277	.00561	.07776	-.12781	-.00420	-.00078	-.00479	.01143	-.12462	.08278	188.94042
10.330	-.158	.00230	.07009	-.09669	-.00385	-.00120	-.00408	.00893	-.09649	.07035	188.71188
10.330	1.878	.00229	.05444	-.06415	-.00089	-.00156	-.00437	.00924	-.06623	.06230	188.86786
10.330	3.968	.00234	.05973	-.02979	.00270	-.00189	-.00449	.00943	-.03386	.05752	188.26657
10.330	5.990	.00069	.05605	.00526	.00660	-.00236	-.00455	.00998	-.00062	.05629	188.70915
10.330	7.993	-.00109	.05236	.04547	.01053	-.00266	-.00450	.01061	.03775	.05817	188.80190
10.330	10.220	-.00509	.04878	.09412	.01464	-.00302	-.00435	.01111	.08397	.06471	188.73760
10.330	15.232	-.01140	.04581	.22689	.02468	-.00390	-.00462	.01210	.20688	.10382	188.59380
10.330	20.368	-.01686	.04589	.39123	.03710	-.00423	-.00508	.01230	.35079	.17919	188.75055
10.330	25.457	-.01963	.04711	.58488	.04769	-.00479	-.00568	.01177	.50784	.29393	188.68750
10.330	30.635	-.02414	.04616	.79818	.05345	-.00489	-.00590	.01110	.66325	.44644	188.44923
10.330	35.818	-.02862	.04439	1.02123	.05530	-.00505	-.00626	.00992	.80212	.63363	188.60026
	GRADIENT	-.00042	-.00330	.01614	.00043	-.00014	.00008	-.00054	.01483	-.00497	-.05664

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MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(RJA288) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 288/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.193	.00335	.09586	-.27263	.02603	-.00318	-.00575	.02831	-.25619	.13373	378.60607
10.330	-6.250	.01084	.08334	-.23370	.02598	-.00461	-.00684	.02725	-.22324	.10828	378.31970
10.330	-4.175	.01986	.07237	-.19094	.02014	-.00536	-.00807	.02396	-.18516	.08608	377.89632
10.330	-2.153	.02338	.06422	-.15652	.01698	-.00537	-.00843	.02048	-.15400	.07005	376.38784
10.330	-.162	.01619	.05728	-.12547	.01646	-.00516	-.00816	.01893	-.12531	.05763	377.62668
10.330	2.113	.01462	.05104	-.08726	.01901	-.00557	-.00846	.01928	-.08908	.04779	377.91179
10.330	4.007	.01495	.04696	-.05454	.02311	-.00616	-.00871	.01989	-.05769	.04303	379.39704
10.330	6.020	.01233	.04286	-.01852	.02545	-.00636	-.00876	.02019	-.02291	.04068	374.29438
10.330	8.018	.00697	.03990	.02166	.02861	-.00656	-.00863	.02114	.01602	.04154	377.96539
10.330	10.057	.00170	.03603	.06753	.03091	-.00679	-.00860	.02140	.06020	.04727	374.94202
10.330	15.194	-.00490	.03328	.20780	.03916	-.00662	-.00875	.02318	.19182	.08658	376.03875
10.330	20.270	-.00933	.03334	.37025	.05188	-.00652	-.00920	.02490	.33577	.15954	376.90956
10.330	25.642	-.02123	.03264	.57160	.06382	-.00674	-.00955	.02569	.50118	.27678	376.12328
10.330	30.675	-.02633	.03061	.77995	.06881	-.00676	-.01023	.02596	.65521	.42423	376.36116
10.330	35.897	-.03217	.02832	1.00411	.07014	-.00701	-.01083	.02502	.79680	.61168	377.43388
	GRADIENT	-.00090	-.00310	.01658	.00039	-.00009	-.00006	-.00045	.01550	-.00525	.21881

ORIGINAL PAGE IS
OF POOR QUALITY

01N49 LARC CFHT 118 (MA-22)

(RJA289) (12 JAN 78)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = .000 T/QA = .000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 289/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEL	CYN	CY	CL	CO	T/QA
10.330	-8.271	-.01005	.12628	-.23404	-.00754	.00119	-.00045	-.00452	-.21344	.15864	-.09314
10.330	-6.321	-.00977	.11569	-.19774	-.00650	.00056	-.00080	-.00366	-.18380	.13676	-.09310
10.330	-4.221	-.01077	.10303	-.15414	-.01222	.00069	-.00053	-.00408	-.14614	.11410	-.06206
10.330	-2.227	-.00996	.09132	-.11443	-.01628	.00061	-.00054	-.00391	-.11079	.09570	-.06204
10.330	-.217	-.00929	.08437	-.08039	-.01608	.00049	-.00053	-.00355	-.08007	.08467	-.06203
10.330	2.076	-.00772	.07913	-.04227	-.01389	.00035	-.00060	-.00316	-.04510	.07755	-.06201
10.330	3.793	-.00761	.07443	-.01340	-.01144	.00027	-.00062	-.00303	-.01829	.07338	-.03098
10.330	5.987	-.00841	.06977	.02416	-.00730	.00013	-.00067	-.00320	.01675	.07191	-.03099
10.330	7.869	-.00852	.06734	.05994	-.00344	.00008	-.00073	-.00334	.05015	.07492	-.03098
10.330	10.055	-.00667	.06450	.10783	.00091	-.00005	-.00081	-.00385	.09491	.08234	-.06197
10.330	13.299	-.00457	.06292	.24963	.00937	-.00019	-.00108	-.00436	.22418	.12656	-.06194
10.330	20.457	-.00512	.06416	.42045	.02028	-.00035	-.00121	-.00585	.37151	.20706	-.12389
10.330	25.585	-.00260	.06479	.61588	.03065	-.00054	-.00119	-.00782	.52751	.32441	-.06194
10.330	30.607	-.00279	.06461	.82235	.03656	-.00076	-.00113	-.00948	.67488	.47431	.00000
10.330	35.786	-.00442	.06366	1.04669	.03831	-.00097	-.00121	-.01147	.81185	.66371	-.06192
	GRADIENT	.00042	-.00341	.01739	.00019	-.00005	-.00001	.00014	.01580	-.00490	.00297

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 215

01N83 LARC CFHT 118 (MA-22)

(RJA290) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = -30.000 BDFLAP = -14.250
 NO.JET = 3.000

RUN NO. 290/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.333	-.01468	.12759	-.23614	-.00791	.00120	-.00042	-.00330	-.21515	.16047	-.36803
10.330	-6.375	-.01138	.11697	-.20092	-.00651	.00057	-.00076	-.00248	-.18669	.13856	-.36787
10.330	-4.320	-.01313	.10432	-.15580	-.01244	.00070	-.00044	-.00318	-.14749	.11576	-.41423
10.330	-2.302	-.01212	.09210	-.11473	-.01670	.00066	-.00050	-.00285	-.11093	.09664	-.36815
10.330	-.267	-.01259	.08545	-.08086	-.01620	.00050	-.00047	-.00285	-.08046	.08583	-.36787
10.330	1.842	-.01169	.08103	-.04543	-.01430	.00037	-.00049	-.00275	-.04802	.07952	-.36825
10.330	4.056	-.01096	.07468	-.00898	-.01126	.00025	-.00052	-.00255	-.01424	.07386	-.41383
10.330	5.948	-.01115	.07069	.02393	-.00755	.00015	-.00058	-.00262	.01648	.07279	-.32196
10.330	7.912	-.00946	.06800	.06395	-.00339	.00010	-.00062	-.00287	.05398	.07616	-.36798
10.330	10.144	-.00962	.06676	.11457	.00038	.00004	-.00078	-.00311	.10102	.08589	-.32240
10.330	15.214	-.00761	.06365	.25189	.00963	-.00018	-.00102	-.00390	.22636	.12752	-.36841
10.330	20.469	-.00667	.06478	.42691	.02071	-.00028	-.00116	-.00539	.37730	.20998	-.36826
10.330	25.438	-.00576	.06593	.61601	.03059	-.00052	-.00113	-.00764	.52797	.32413	-.36807
10.330	30.498	-.00547	.06554	.83091	.03681	-.00072	-.00109	-.00939	.68269	.47817	-.32252
10.330	35.741	-.00526	.06493	1.05782	.03833	-.00097	-.00112	-.01160	.82067	.67059	-.32234
	GRADIENT	.00023	-.00336	.01736	.00024	-.00006	-.00001	.00007	.01576	-.00481	-.00011

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 216

OIN93 LARC CFHT 118 (MA-22)

(RJA291) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 142.500
 ELEVON = -30.000 BDFLAP = -14.250
 NO.JET = 3.000

RUN NO. 291/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.307	.00553	.11977	-.24422	.00235	.00027	-.00528	.00983	-.22436	.15380	142.66851
10.330	-6.350	.00253	.10722	-.21117	.00342	-.00092	-.00466	.01282	-.19802	.12992	142.67499
10.330	-4.271	.00055	.09388	-.16329	-.00406	-.00058	-.00437	.01120	-.15584	.10578	142.50040
10.330	-2.255	-.00074	.08344	-.12146	-.00899	-.00027	-.00387	.00823	-.11808	.08815	142.39674
10.330	-.206	-.00209	.07580	-.08910	-.00867	-.00014	-.00336	.00673	-.08883	.07612	142.75263
10.330	2.009	-.00286	.06973	-.05355	-.00654	-.00035	-.00332	.00627	-.05596	.06781	142.39776
10.330	3.919	-.00379	.06505	-.02163	-.00342	-.00033	-.00340	.00710	-.02603	.06342	142.49233
10.330	5.895	-.00322	.06136	.01320	.00084	-.00064	-.00344	.00745	.00683	.06239	142.38490
10.330	8.068	-.00471	.05762	.05627	.00602	-.00106	-.00344	.00800	.04762	.06495	142.17499
10.330	10.136	-.00724	.05438	.10001	.01056	-.00130	-.00332	.00831	.08888	.07113	142.33383
10.330	15.290	-.01095	.05070	.23805	.02019	-.00233	-.00336	.00859	.21625	.11168	142.31548
10.330	20.539	-.01364	.05137	.41267	.03227	-.00282	-.00385	.00833	.36842	.19288	142.42402
10.330	25.477	-.01599	.05232	.60102	.04280	-.00337	-.00431	.00735	.52007	.30576	142.36516
10.330	30.550	-.02084	.05307	.81378	.04925	-.00401	-.00466	.00583	.67384	.45934	142.25253
10.330	35.772	-.02653	.05138	1.04020	.05150	-.00460	-.00504	.00438	.81393	.64974	142.23814
	GRADIENT	-.00052	-.00346	.01701	.00018	.00002	.00012	-.00049	.01558	-.00509	-.00117

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA292) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 285.000
 ELEVON = -30.000 SDFLAP = -14.250
 NOJET = 3.000

RUN NO. 292/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.296	.00741	.11063	-.25957	.01529	-.00146	-.00650	.02240	-.24089	.14692	283.51993
10.330	-6.300	.00643	.09844	-.21885	.01391	-.00196	-.00605	.02076	-.20672	.12186	283.25003
10.330	-4.219	.00738	.08393	-.17018	.00556	-.00163	-.00616	.01808	-.16354	.09622	283.14210
10.330	-2.218	.01022	.07401	-.12978	.00101	-.00141	-.00644	.01547	-.12682	.07898	282.89594
10.330	-.170	.00734	.06735	-.10056	.00185	-.00179	-.00605	.01369	-.10036	.06765	282.82542
10.330	1.920	.00770	.06178	-.06550	.00414	-.00191	-.00618	.01365	-.06753	.05956	281.86724
10.330	3.883	.00697	.05733	-.03229	.00735	-.00208	-.00630	.01396	-.03609	.05501	282.81910
10.330	5.786	.00631	.05397	-.00022	.01149	-.00236	-.00652	.01461	-.00566	.05367	282.54777
10.330	8.004	.00367	.04977	.04367	.01567	-.00252	-.00637	.01497	.03631	.05536	283.06314
10.330	10.008	.00085	.04656	.08760	.01957	-.00294	-.00620	.01533	.07817	.06108	282.52578
10.330	15.300	-.00639	.04291	.22940	.03087	-.00413	-.00650	.01673	.20994	.10193	283.26054
10.330	20.495	-.01293	.04291	.40071	.04431	-.00459	-.00673	.01748	.36032	.18049	282.81371
10.330	25.642	-.01761	.04279	.59807	.05348	-.00485	-.00707	.01677	.52065	.29739	282.11705
10.330	30.638	-.02088	.04232	.80996	.05883	-.00511	-.00763	.01650	.67533	.44918	283.33516
10.330	35.786	-.02989	.04042	1.03411	.06112	-.00567	-.00799	.01592	.81524	.63749	283.35703
	GRADIENT	-.00017	-.00322	.01671	.00033	-.00007	-.00000	-.00049	.01544	-.00501	-.07833

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA293) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 570.000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 3.000

RUN NO. 293/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.135	.02027	.08983	-.28300	.03943	-.00474	-.00956	.03738	-.26744	.12897	569.57611
10.330	-6.188	.02580	.07729	-.24405	.03885	-.00623	-.01069	.03596	-.23429	.10314	568.90287
10.330	-4.242	.03363	.06757	-.20094	.03337	-.00691	-.01191	.03248	-.19539	.08225	566.87324
10.330	-2.224	.03493	.05898	-.16288	.03047	-.00697	-.01229	.02866	-.16047	.06526	567.93207
10.330	-.057	.03024	.05126	-.12875	.02972	-.00663	-.01173	.02665	-.12870	.05138	567.70510
10.330	2.125	.02856	.04564	-.09323	.03235	-.00730	-.01215	.02690	-.09486	.04215	567.62076
10.330	3.984	.02530	.04153	-.06042	.03669	-.00795	-.01246	.02770	-.06316	.03723	566.94150
10.330	6.100	.02281	.03716	-.02163	.03968	-.00773	-.01258	.02851	-.02546	.03465	566.38212
10.330	8.063	.01720	.03326	.02006	.04093	-.00728	-.01242	.02938	.01520	.03575	565.74753
10.330	10.083	.01408	.03055	.06756	.04192	-.00701	-.01236	.02973	.06117	.04191	566.16019
10.330	15.071	.00845	.02772	.20397	.04942	-.00589	-.01253	.03154	.18975	.07981	566.19566
10.330	20.412	-.00249	.02666	.38163	.06205	-.00599	-.01241	.03359	.34837	.15809	565.06657
10.330	25.665	-.01326	.02572	.57866	.07343	-.00672	-.01295	.03453	.51043	.27380	565.52669
10.330	30.696	-.01854	.02359	.78774	.08006	-.00696	-.01383	.03559	.66532	.42242	564.75332
10.330	35.851	-.02886	.02034	1.01393	.08056	-.00738	-.01430	.03480	.80991	.61033	564.52273
	GRADIENT	-.00111	-.00315	.01685	.00040	-.00011	-.00004	-.00055	.01586	-.00545	-.00734

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MA22 - FORCE SOURCE DATA TABULATION

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O1N83 LARC CFHT 118 (MA-22)

(RJA294) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 294/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.391	-.01417	.12983	-.23893	-.00840	.00128	-.00041	-.00440	-.21742	.16331	-.45987
10.330	-6.458	-.01207	.11811	-.20384	-.00676	.00060	-.00079	-.00312	-.18928	.14029	-.41384
10.330	-4.321	-.01317	.10537	-.15742	-.01272	.00070	-.00047	-.00386	-.14904	.11694	-.41370
10.330	-2.248	-.01226	.09277	-.11555	-.01687	.00067	-.00053	-.00332	-.11182	.09723	-.41413
10.330	-.283	-.01203	.08611	-.08132	-.01640	.00053	-.00053	-.00319	-.08089	.08651	-.46004
10.330	1.801	-.01186	.08099	-.04683	-.01426	.00037	-.00057	-.00278	-.04935	.07948	-.41384
10.330	3.888	-.01095	.07574	-.01123	-.01141	.00027	-.00059	-.00283	-.01634	.07480	-.36779
10.330	5.960	-.01059	.07103	.02601	-.00795	.00016	-.00062	-.00304	.01849	.07334	-.36831
10.330	7.962	-.01056	.06804	.06537	-.00380	.00009	-.00071	-.00324	.05532	.07643	-.45975
10.330	10.005	-.00931	.06523	.11081	-.00023	-.00002	-.00078	-.00377	.09780	.08349	-.41427
10.330	15.134	-.00709	.06383	.25198	.00703	-.00019	-.00109	-.00415	.22658	.12740	-.41375
10.330	20.263	-.00473	.06520	.42673	.01602	-.00031	-.00118	-.00573	.37774	.20895	-.41431
10.330	25.611	-.00536	.06600	.63464	.02377	-.00054	-.00120	-.00788	.54376	.33384	-.45979
10.330	30.604	-.00678	.06571	.84710	.02596	-.00083	-.00114	-.00963	.69565	.48782	-.41374
10.330	35.725	-.00544	.06508	1.07641	.02329	-.00102	-.00116	-.01163	.83586	.68135	-.41424
	GRADIENT	.00024	-.00347	.01764	.00028	-.00006	-.00001	.00013	.01602	-.00498	.00458

MAINTENANCE
 INSTRUCTIONS
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01N83 LARC CFHT 118 (MA-22)

(RJA295) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 142.500
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 295/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.237	.00204	.11960	-.24227	.00176	.00024	-.00458	.00850	-.22264	.15308	143.15565
10.330	-6.331	-.00097	.10699	-.20781	.00207	-.00077	-.00395	.01104	-.19474	.12926	142.99266
10.330	-4.143	-.00294	.09316	-.15853	-.00604	-.00053	-.00360	.00911	-.15138	.10437	142.88870
10.330	-2.295	-.00270	.08311	-.12081	-.01099	-.00039	-.00330	.00661	-.11738	.08788	143.00408
10.330	-.051	-.00527	.07565	-.08472	-.00979	-.00002	-.00267	.00494	-.08465	.07572	142.95290
10.330	1.764	-.00451	.07053	-.05614	-.00767	-.00030	-.00258	.00467	-.05828	.06877	142.47061
10.330	3.914	-.00597	.06525	-.02086	-.00392	-.00046	-.00269	.00548	-.02527	.06367	142.68762
10.330	5.956	-.00573	.06156	.01618	.00035	-.00087	-.00283	.00596	.00970	.06290	142.74116
10.330	8.000	-.00728	.05834	.05604	.00436	-.00114	-.00290	.00652	.04737	.06557	142.53709
10.330	10.032	-.00935	.05492	.10178	.00791	-.00130	-.00277	.00724	.09066	.07181	142.51425
10.330	15.104	-.01407	.05127	.23603	.01688	-.00242	-.00289	.00760	.21452	.11100	142.44393
10.330	20.138	-.01612	.05214	.40450	.02708	-.00312	-.00342	.00728	.36182	.18822	142.43653
10.330	25.488	-.01727	.05325	.61042	.03543	-.00353	-.00404	.00614	.52810	.31075	142.08834
10.330	30.598	-.02242	.05309	.82823	.03838	-.00397	-.00416	.00451	.68589	.46728	142.52705
10.330	35.700	-.02729	.05164	1.05189	.03824	-.00459	-.00449	.00295	.82409	.65577	142.47791
	GRADIENT	-.00040	-.00338	.01684	.00038	.00001	.00013	-.00045	.01542	-.00497	-.04576

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 221

01N83 LARC CFHT 118 (MA-22)

(RJA296) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 285.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 296/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.263	.00083	.10975	-.25694	.01390	-.00131	-.00517	.02003	-.23350	.14553	284.01294
10.330	-6.143	-.00063	.09645	-.21400	.01173	-.00181	-.00476	.01858	-.20243	.11880	284.19190
10.330	-4.251	.00113	.08396	-.16916	.00438	-.00150	-.00499	.01589	-.16247	.09627	284.02923
10.330	-2.226	.00307	.07387	-.12892	-.00069	-.00126	-.00516	.01287	-.12596	.07882	283.85273
10.330	-.226	.00175	.06650	-.10200	.00000	-.00165	-.00463	.01139	-.10174	.06690	283.97846
10.330	1.896	.00098	.06070	-.06751	.00272	-.00192	-.00482	.01166	-.06948	.05844	283.90890
10.330	4.093	.00065	.05613	-.03077	.00668	-.00235	-.00494	.01190	-.03470	.05379	283.75656
10.330	5.915	-.00136	.05296	.00127	.01049	-.00282	-.00502	.01221	-.00420	.05281	283.81955
10.330	7.993	-.00352	.04929	.04316	.01385	-.00302	-.00497	.01316	.03589	.05481	283.72822
10.330	10.198	-.00713	.04531	.09219	.01758	-.00356	-.00502	.01391	.08271	.06091	283.80927
10.330	15.277	-.01455	.04282	.22858	.02795	-.00484	-.00540	.01524	.20922	.10153	283.95369
10.330	20.443	-.01791	.04320	.40263	.03904	-.00513	-.00592	.01558	.36218	.18111	283.69017
10.330	25.419	-.02073	.04376	.59531	.04602	-.00530	-.00651	.01516	.51890	.29505	283.65781
10.330	30.642	-.02818	.04327	.82243	.04812	-.00560	-.00668	.01412	.68554	.45640	283.58751
10.330	35.764	-.03262	.04118	1.04440	.04618	-.00575	-.00708	.01279	.82339	.64381	283.61017
	GRADIENT	-.00015	-.00330	.01625	.00040	-.00011	.00002	-.00044	.01500	-.00504	-.02374

OINB3 LARC CFHT 110 (MA-22)

(RJA297) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 297/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEL	CYN	CY	CL	CD	T/QA
10.330	-8.296	.00598	.08947	-.28370	.03719	-.00430	-.00672	.03279	-.26782	.12947	569.16216
10.330	-6.375	.01280	.07751	-.24417	.03646	-.00580	-.00779	.03110	-.23406	.10414	568.74817
10.330	-4.224	.02142	.06599	-.19815	.03037	-.00653	-.00917	.02760	-.19275	.08040	568.64068
10.330	-2.204	.02101	.05742	-.16273	.02686	-.00643	-.00948	.02420	-.16040	.06363	567.92131
10.330	-.214	.01758	.05026	-.13123	.02583	-.00604	-.00909	.02256	-.13104	.05075	568.64902
10.330	1.917	.01588	.04465	-.09717	.02835	-.00641	-.00941	.02293	-.09861	.04137	568.30383
10.330	3.901	.01315	.03987	-.06345	.03243	-.00710	-.00968	.02377	-.06601	.03546	567.56853
10.330	5.975	.01049	.03594	-.02523	.03543	-.00728	-.00984	.02431	-.02883	.03312	566.16385
10.330	8.000	.00592	.03241	.01742	.03734	-.00732	-.00968	.02524	.01274	.03452	566.80016
10.330	10.032	.00033	.02934	.06362	.03924	-.00746	-.00964	.02567	.05754	.03997	566.42440
10.330	15.303	-.00859	.02665	.21155	.04746	-.00769	-.00985	.02776	.19702	.08154	566.56699
10.330	20.486	-.01886	.02660	.38245	.05990	-.00803	-.01044	.02997	.34895	.15877	566.75409
10.330	25.685	-.02689	.02665	.58177	.06884	-.00828	-.01111	.03083	.51274	.27617	566.55200
10.330	30.719	-.03250	.02421	.79955	.06957	-.00772	-.01148	.03093	.67499	.42924	565.86588
10.330	35.765	-.03767	.02134	1.02289	.06553	-.00750	-.01168	.02967	.81752	.61516	565.46804
	GRADIENT	-.00106	-.00319	.01644	.00028	-.00006	-.00005	-.00044	.01548	-.00550	-.08658

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(RJA298) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.6000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 298/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.233	-.00307	.12191	-.24076	-.00141	.00057	-.00360	.00543	-.22082	.15513	94.88104
10.330	-6.339	-.00552	.11010	-.20689	-.00077	-.00048	-.00319	.00832	-.19347	.13227	95.14416
10.330	-4.417	-.00720	.09755	-.16463	-.00724	-.00013	-.00287	.00721	-.15562	.10994	95.16245
10.330	-2.304	-.00711	.08633	-.12196	-.01210	.00006	-.00250	.00460	-.11840	.09116	94.99649
10.330	-.290	-.00907	.07861	-.08842	-.01188	.00003	-.00194	.00300	-.08802	.07905	94.97819
10.330	1.840	-.00826	.07330	-.05353	-.00957	-.00017	-.00185	.00274	-.05592	.07154	94.99550
10.330	3.874	-.00822	.06847	-.01919	-.00610	-.00030	-.00198	.00333	-.02378	.06702	95.15057
10.330	5.961	-.00913	.06419	.01764	-.00217	-.00067	-.00214	.00413	.01088	.06567	95.16134
10.330	7.788	-.00973	.06073	.05108	.00127	-.00087	-.00223	.00480	.04238	.06709	94.92314
10.330	9.975	-.01158	.05765	.10112	.00525	-.00110	-.00220	.00508	.08960	.07429	95.05131
10.330	14.953	-.01493	.05402	.23482	.01381	-.00206	-.00217	.00531	.21293	.11279	94.97096
10.330	20.340	-.01612	.05530	.41421	.02484	-.00290	-.00289	.00479	.36916	.19582	95.05467
10.330	25.549	-.01808	.05618	.61543	.03278	-.00315	-.00321	.00302	.53102	.31612	94.92384
10.330	30.607	-.02301	.05603	.82747	.03622	-.00375	-.00326	.00146	.68366	.46953	94.84723
10.330	35.794	-.02938	.05399	1.05495	.03728	-.00432	-.00336	-.00035	.82411	.66081	95.01403
	GRADIENT	-.00015	-.00344	.01734	.00023	-.00003	.00012	-.00046	.01583	-.00509	-.00127

ORIGINAL PAGE IS
OF POOR QUALITY

01N49 LARC CFHT 118 (MA-22)

(RJA299) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 299/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.261	.00331	.11521	-.24628	.00676	-.00035	-.00508	.01153	-.22717	.14940	190.24454
10.330	-6.293	-.00550	.10226	-.21214	.00660	-.00138	-.00364	.01399	-.19968	.12490	190.33232
10.330	-4.143	-.00225	.08801	-.16159	-.00158	-.00080	-.00413	.01192	-.15481	.09946	190.17767
10.330	-2.220	-.00223	.07831	-.12619	-.00603	-.00075	-.00378	.00926	-.12306	.08313	189.77947
10.330	-.244	-.00592	.07111	-.09599	-.00623	-.00093	-.00293	.00638	-.09568	.07152	189.87295
10.330	1.859	-.00539	.06522	-.06226	-.00249	-.00132	-.00312	.00704	-.06435	.06317	189.62346
10.330	3.868	-.00549	.06073	-.02995	.00125	-.00169	-.00320	.00733	-.03398	.05857	189.78469
10.330	5.985	-.00728	.05693	.00734	.00530	-.00217	-.00334	.00794	.00137	.05738	189.39002
10.330	8.004	-.01020	.05330	.04828	.00901	-.00258	-.00332	.00866	.04039	.05950	189.62307
10.330	10.009	-.01177	.05023	.09199	.01287	-.00309	-.00331	.00929	.08186	.06545	189.61331
10.330	14.999	-.01702	.04671	.22668	.02211	-.00413	-.00382	.01090	.20687	.10378	189.47409
10.330	20.447	-.02072	.04777	.40759	.03282	-.00457	-.00437	.01049	.36522	.18716	189.40528
10.330	25.638	-.02599	.04880	.60886	.04090	-.00508	-.00486	.00974	.52780	.30744	189.30038
10.330	30.674	-.02747	.04776	.82640	.04307	-.00501	-.00500	.00896	.68640	.46267	189.32823
10.330	35.772	-.03260	.04588	1.04848	.04122	-.00517	-.00512	.00743	.82386	.65013	189.57710
	GRADIENT	-.00048	-.00336	.01627	.00047	-.00012	.00012	-.00056	.01494	-.00505	-.04658

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MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(RJA300) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 300/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/OA
10.330	-8.318	-.00792	.09800	-.27224	.02344	-.00275	-.00357	.02444	-.25520	.13635	378.02752
10.330	-6.395	-.00239	.08526	-.23477	.02327	-.00395	-.00444	.02344	-.22381	.11088	377.05667
10.330	-4.200	.00504	.07331	-.18728	.01668	-.00467	-.00566	.01985	-.18141	.08693	377.03851
10.330	-2.232	.00655	.06523	-.15436	.01448	-.00497	-.00617	.01691	-.15170	.07119	380.16204
10.330	-.203	.00556	.05819	-.12248	.01337	-.00467	-.00603	.01550	-.12227	.05862	380.31218
10.330	2.051	.00369	.05186	-.08500	.01621	-.00507	-.00622	.01586	-.08680	.04878	378.01424
10.330	3.811	.00267	.04796	-.05572	.01975	-.00549	-.00641	.01623	-.05879	.04415	377.53173
10.330	5.929	-.00110	.04375	-.01665	.02340	-.00583	-.00661	.01689	-.02108	.04179	379.78078
10.330	7.975	-.00439	.03999	.02469	.02621	-.00608	-.00635	.01753	.01891	.04303	377.55256
10.330	10.178	-.01132	.03640	.07426	.02940	-.00673	-.00638	.01856	.06666	.04895	377.90031
10.330	15.218	-.02013	.03292	.21252	.03730	-.00711	-.00651	.01998	.19643	.08755	378.28557
10.330	20.440	-.02637	.03397	.38609	.04999	-.00742	-.00717	.02143	.34992	.16667	378.57675
10.330	25.594	-.03245	.03472	.58586	.05796	-.00759	-.00794	.02197	.51338	.28439	377.48694
10.330	30.652	-.03762	.03327	.80233	.05851	-.00735	-.00839	.02182	.67327	.43767	377.92420
10.330	35.829	-.04163	.03061	1.03232	.05535	-.00706	-.00873	.02104	.81905	.62911	379.18541
GRADIENT		-.00038	-.00316	.01637	.00038	-.00009	-.00008	-.00041	.01527	-.00531	-.06152

ORIGINAL PAGE IS
 OF POOR QUALITY

01N79 LARC CFHT 118 (MA-22)

(RJA301) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 301/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.409	-.00848	.12465	-.24055	-.00473	.00102	-.00180	-.00080	-.21974	.15849	48.02545
10.330	-6.271	-.00657	.11325	-.20337	-.00390	-.00002	-.00239	.00412	-.18978	.13479	47.98315
10.330	-4.272	-.00980	.10051	-.15805	-.01102	.00035	-.00179	.00343	-.15012	.11201	47.96049
10.330	-2.132	-.00924	.08991	-.11437	-.01499	.00058	-.00170	.00094	-.11094	.09411	48.00381
10.330	-.285	-.01145	.08385	-.08412	-.01450	.00039	-.00128	.00023	-.08370	.08427	47.97997
10.330	1.796	-.01072	.07769	-.04775	-.01277	.00022	-.00132	.00052	-.05018	.07618	48.01905
10.330	3.883	-.01049	.07258	-.01362	-.00962	.00012	-.00141	.00094	-.01851	.07149	47.98282
10.330	5.934	-.01040	.06815	.02290	-.00611	-.00005	-.00149	.00124	.01573	.07015	48.04236
10.330	8.006	-.01083	.06444	.06264	-.00222	-.00007	-.00146	.00156	.05306	.07253	47.99453
10.330	10.029	-.01112	.06138	.10836	.00164	-.00027	-.00138	.00160	.09601	.07932	47.99447
10.330	14.983	-.01409	.05815	.24210	.01078	-.00137	-.00160	.00150	.21883	.11876	47.98981
10.330	20.373	-.01463	.05923	.42043	.02147	-.00191	-.00195	.00051	.37351	.20189	47.98392
10.330	25.520	-.01631	.06029	.62073	.02959	-.00220	-.00195	-.00156	.53419	.32183	48.02629
10.330	30.559	-.02097	.06002	.83171	.03263	-.00272	-.00173	-.00354	.68568	.47454	48.02097
10.330	35.679	-.02330	.05866	1.05869	.03096	-.00313	-.00210	-.00507	.82576	.66513	48.04904
	GRADIENT	-.00014	-.00336	.01757	.00025	-.00004	.00006	-.00027	.01601	-.00489	.00300

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MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (MA-22)

(RJA302) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = -30.000 SDFLAP = .000
 NO.JET = 1.000

RUN NO. 302/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEI	CYN	CY	CL	CD	T/OA
10.330	-8.395	-.00268	.12235	-.24134	-.00276	.00070	-.00342	.00477	-.22089	.15627	95.94210
10.330	-6.330	-.00632	.10977	-.20663	-.00135	-.00047	-.00308	.00859	-.19327	.13188	95.92872
10.330	-4.196	-.00763	.09633	-.15776	-.00873	-.00005	-.00279	.00709	-.15029	.10761	95.97629
10.330	-2.285	-.00861	.08586	-.12081	-.01284	.00007	-.00236	.00479	-.11729	.09061	95.89211
10.330	-.245	-.00978	.07838	-.08637	-.01259	.00007	-.00163	.00243	-.08604	.07875	95.77108
10.330	1.798	-.01064	.07276	-.05424	-.01038	-.00014	-.00157	.00220	-.05650	.07102	95.78894
10.330	3.939	-.01077	.06793	-.01805	-.00655	-.00043	-.00168	.00282	-.02268	.06653	95.83625
10.330	6.020	-.01055	.06373	.01857	-.00242	-.00081	-.00185	.00367	.01179	.06533	95.74029
10.330	7.876	-.01151	.06089	.05482	.00095	-.00118	-.00187	.00383	.04596	.06783	95.83802
10.330	10.089	-.01404	.05739	.10439	.00546	-.00171	-.00180	.00447	.09272	.07479	95.78101
10.330	15.136	-.01711	.05338	.23977	.01407	-.00252	-.00231	.00561	.21751	.11414	95.81570
10.330	20.359	-.01620	.05463	.41524	.02423	-.00290	-.00285	.00465	.37030	.19568	95.66808
10.330	25.576	-.02130	.05592	.61835	.03289	-.00351	-.00315	.00286	.53362	.31738	95.72190
10.330	30.563	-.02703	.05526	.82600	.03621	-.00401	-.00302	.00176	.68314	.46759	95.71713
10.330	35.747	-.02984	.05344	1.05557	.03488	-.00415	-.00303	-.00005	.82548	.66005	95.83931
	GRADIENT	-.00041	-.00342	.01699	.00035	-.00005	.00015	-.00054	.01552	-.00497	-.01853

OIN79 LARC CFHT 118 (MA-22)

(RJA303) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 303/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.359	-.01126	.11331	-.25311	.00548	-.00054	-.00279	.01577	-.23395	.14890	192.16371
10.330	-6.384	-.01353	.10072	-.21461	.00452	-.00133	-.00217	.01404	-.20208	.12395	192.01793
10.330	-4.239	-.00956	.08619	-.16570	-.00306	-.00144	-.00261	.01145	-.15888	.09820	191.86792
10.330	-2.239	-.00615	.07692	-.12478	-.00793	-.00119	-.00298	.00799	-.12168	.08174	191.99961
10.330	-.188	-.00614	.07046	-.09761	-.00586	-.00189	-.00284	.00689	-.09738	.07078	191.80293
10.330	1.990	-.00749	.06464	-.06381	-.00221	-.00220	-.00308	.00737	-.06602	.06238	191.81749
10.330	3.872	-.00793	.06036	-.03175	.00132	-.00252	-.00317	.00783	-.03575	.05808	191.77796
10.330	6.006	-.00993	.05663	.00673	.00560	-.00319	-.00324	.00823	.00077	.05702	191.72158
10.330	7.896	-.01266	.05345	.04252	.00910	-.00358	-.00321	.00900	.03477	.05878	191.79909
10.330	10.102	-.01574	.04983	.09230	.01309	-.00406	-.00313	.00964	.08213	.06525	191.85604
10.330	15.125	-.02209	.04633	.22723	.02182	-.00489	-.00350	.01121	.20727	.10402	191.45041
10.330	20.330	-.02538	.04618	.40014	.03165	-.00478	-.00379	.01098	.35917	.18232	191.58151
10.330	25.476	-.02853	.04761	.60334	.03944	-.00519	-.00449	.01015	.52419	.30250	191.75905
10.330	30.548	-.03460	.04683	.81341	.04254	-.00562	-.00486	.00987	.67671	.45375	191.56879
10.330	35.684	-.03897	.04490	1.04126	.04158	-.00584	-.00505	.00863	.81957	.64385	191.66206
	GRADIENT	.00009	-.00313	.01607	.00071	-.00016	-.00006	-.00038	.01475	-.00487	-.01776

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MA22 - FORCE SOURCE DATA TABULATION

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OIN84 LARC CFHT 118 (MA-22)

(RJA304) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 304/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.233	-.03653	.11899	-.24949	-.00591	-.00277	.00897	-.03884	-.22989	.15349	95.10047
10.330	-6.280	-.04921	.10760	-.21668	-.00626	-.00494	.01180	-.04069	-.20361	.13066	94.99009
10.330	-4.371	-.06449	.09674	-.17855	-.01503	-.00673	.01413	-.03583	-.17066	.11007	94.98711
10.330	-2.324	-.07009	.08716	-.14087	-.01846	-.00773	.01425	-.03253	-.13722	.09280	94.94166
10.330	-.265	-.06882	.08037	-.10943	-.01761	-.00788	.01325	-.03009	-.10905	.08088	94.83961
10.330	1.971	-.06213	.07540	-.07541	-.01497	-.00686	.01091	-.02474	-.07796	.07277	94.74057
10.330	3.742	-.05548	.07092	-.04726	-.01281	-.00604	.00904	-.02119	-.05179	.06768	94.68978
10.330	5.858	-.04873	.06572	-.00608	-.00999	-.00483	.00702	-.01727	-.01276	.06476	94.65137
10.330	7.905	-.03945	.06268	.04064	-.00637	-.00387	.00481	-.01293	.03164	.06767	94.75290
10.330	10.108	-.02785	.05964	.09097	-.00131	-.00195	.00364	-.01575	.07909	.07468	94.72080
10.330	15.156	-.01222	.05844	.23193	.00745	.00051	.00183	-.01565	.20859	.11704	94.64157
10.330	20.366	-.00296	.06027	.40538	.01800	.00113	.00114	-.01780	.35908	.19759	94.65413
10.330	25.553	-.00018	.06214	.60861	.02685	.00119	.00124	-.01973	.52227	.31858	94.69118
10.330	30.583	.00229	.06237	.82369	.03016	.00113	.00141	-.02117	.67737	.47278	94.59202
10.330	35.792	.01113	.06341	1.04861	.02976	.00231	.00220	-.02344	.81349	.66471	94.64339
	GRADIENT	.00125	-.00309	.01598	.00040	.00011	-.00066	.00181	.01447	-.00512	-.03885

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MA22 - FORCE SOURCE DATA TABULATION

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01N84 LARC CFHT 118 (MA-22)

(RJA305) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 180.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 305/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEL	CYN	CY	CL	CD	T/OA
10.330	-8.371	-.07126	.11536	-.26358	-.00026	-.01122	.02173	-.06984	-.24398	.15250	189.62383
10.330	-6.390	-.09398	.10384	-.22908	-.00514	-.01273	.02499	-.06542	-.21610	.12669	189.78027
10.330	-4.466	-.09959	.09398	-.19068	-.01180	-.01332	.02457	-.05907	-.18278	.10854	189.42174
10.330	-2.123	-.09115	.08396	-.14815	-.01602	-.01185	.02040	-.04898	-.14494	.08939	189.16062
10.330	-.313	-.08010	.07677	-.12150	-.01763	-.00984	.01641	-.03781	-.12108	.07744	188.90266
10.330	1.995	-.06675	.07106	-.08970	-.01532	-.00737	.01191	-.02824	-.09212	.06789	188.95647
10.330	3.865	-.05581	.06806	-.06081	-.01334	-.00560	.00917	-.02247	-.06526	.06381	189.06308
10.330	5.828	-.04625	.06458	-.02689	-.01162	-.00423	.00645	-.01632	-.03331	.06152	189.02052
10.330	8.018	-.04260	.05990	.02308	-.00456	-.00280	.00581	-.01622	.01450	.06253	189.28474
10.330	10.045	-.03670	.05751	.07105	-.00176	-.00258	.00504	-.01744	.05993	.06902	189.18416
10.330	15.057	-.02639	.05528	.20833	.00871	-.00033	.00446	-.02042	.18681	.10750	188.96173
10.330	20.268	-.01044	.05722	.38523	.01815	.00134	.00389	-.02612	.34156	.18713	189.32178
10.330	25.321	-.00758	.05818	.58418	.02712	.00095	.00364	-.02812	.50318	.30244	189.01791
10.330	30.563	-.00210	.05917	.81021	.03181	.00148	.00434	-.02997	.66757	.46292	189.15539
10.330	35.736	.00328	.05961	1.03443	.03081	.00199	.00467	-.03137	.80484	.65255	189.17698
	GRADIENT	.00538	-.00312	.01533	-.00012	.00096	-.00189	.00452	.01386	-.00536	-.04467

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MA22 - FORCE SOURCE DATA TABULATION

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OIN84 LARC CFHT 118 (11A-22)

(RJA306) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 306/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.365	-.09548	.11196	-.27336	.00280	-.01652	.03004	-.08747	-.25416	.15053	254.91669
10.330	-6.410	-.11211	.10193	-.23454	-.00383	-.01666	.03105	-.07912	-.22169	.12748	254.28379
10.330	-4.292	-.11235	.09211	-.19300	-.00968	-.01462	.02815	-.06828	-.18556	.10629	254.13331
10.330	-2.278	-.09941	.08270	-.15601	-.01399	-.01281	.02291	-.05516	-.15260	.08884	253.94350
10.330	-.255	-.08413	.07472	-.12708	-.01516	-.01007	.01737	-.04083	-.12674	.07529	253.56771
10.330	1.794	-.06808	.06982	-.09768	-.01346	-.00732	.01259	-.03139	-.09982	.06673	253.15254
10.330	3.882	-.05611	.06634	-.05886	-.01259	-.00529	.00945	-.02475	-.07319	.06153	253.51471
10.330	5.856	-.05311	.06421	-.03804	-.01163	-.00468	.00777	-.02017	-.04440	.05999	253.26251
10.330	7.855	-.04857	.06122	.00450	-.00828	-.00480	.00664	-.01710	-.00391	.06126	253.02764
10.330	10.135	-.04780	.05693	.05924	.00097	-.00249	.00750	-.02103	.04832	.06637	253.31724
10.330	15.148	-.03579	.05419	.20076	.00927	-.00116	.00629	-.02360	.17963	.10477	252.80448
10.330	20.348	-.01648	.05552	.37880	.01936	.00139	.00569	-.03078	.33586	.18377	252.81778
10.330	25.478	-.01073	.05692	.58039	.02876	.00138	.00579	-.03409	.49946	.30105	253.30102
10.330	30.562	-.00818	.05718	.79550	.03268	.00143	.00620	-.03522	.65591	.45373	253.20191
10.330	35.723	-.00524	.05703	1.02509	.03076	.00122	.00638	-.03695	.79892	.64481	253.10070
	GRADIENT	.00704	-.00315	.01501	-.00026	.00118	-.00234	.00542	.01359	-.00546	-.09893

DATE 13 APR 78

HA22 - FORCE SOURCE DATA TABULATION

PAGE 232

01N84 LARC CFHT 118 (HA-22)

(RJAS07) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1078.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 307/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CD	T/OA
10.330	-8.210	-.01515	.12614	-.23212	-.00735	.00120	-.00053	-.00437	-.21173	.15798	-.30031
10.330	-6.485	-.01135	.11626	-.20182	-.00618	.00059	-.00089	-.00338	-.18740	.13831	-.33027
10.330	-4.117	-.01362	.10123	-.15015	-.01274	.00073	-.00058	-.00408	-.14249	.11174	-.36062
10.330	-2.331	-.01223	.09169	-.11498	-.01608	.00068	-.00058	-.00383	-.11116	.09629	-.30033
10.330	-.276	-.01280	.08471	-.08060	-.01582	.00053	-.00056	-.00358	-.08019	.08510	-.30040
10.330	1.809	-.01198	.07970	-.04622	-.01374	.00039	-.00062	-.00302	-.04872	.07820	-.33056
10.330	4.057	-.01221	.07396	-.01000	-.01060	.00026	-.00069	-.00288	-.01521	.07306	-.33024
10.330	5.959	-.01194	.06968	.02307	-.00760	.00017	-.00071	-.00301	.01571	.07170	-.30039
10.330	7.977	-.01086	.06710	.06351	-.00369	.00008	-.00075	-.00341	.05358	.07527	-.30047
10.330	9.988	-.00993	.06404	.10572	-.00001	-.00001	-.00091	-.00358	.09302	.08140	-.33049
10.330	14.938	-.00803	.06297	.24226	.00655	-.00018	-.00113	-.00412	.21784	.12329	-.30002
10.330	20.375	-.00689	.06474	.42307	.01568	-.00039	-.00124	-.00588	.37406	.20798	-.30035
10.330	25.501	-.00640	.06544	.62189	.02348	-.00062	-.00118	-.00789	.53313	.32681	-.30038
10.330	30.542	-.00747	.06499	.83072	.02625	-.00086	-.00115	-.00959	.68244	.47812	-.30062
10.330	35.732	-.00745	.06448	1.05808	.02401	-.00111	-.00120	-.01152	.82125	.67026	-.36078
	GRADIENT	.00015	-.00323	.01701	.00035	-.00006	-.00001	.00016	.01545	-.00461	.00122

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 233

01N85 LARC CFHT 118 (MA-22)

(RJA308) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 308/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.295	-.01384	.12898	-.23799	-.00805	.00120	-.00054	-.00362	-.21689	.16197	-.21501
10.330	-6.356	-.01217	.11771	-.20226	-.00665	.00057	-.00083	-.00258	-.18798	.13938	-.18403
10.330	-4.290	-.01332	.10375	-.15739	-.01263	.00071	-.00053	-.00310	-.14917	.11523	-.21474
10.330	-2.293	-.01281	.09268	-.11685	-.01854	.00065	-.00059	-.00287	-.11305	.09728	-.21481
10.330	-.279	-.01266	.08581	-.08265	-.01651	.00049	-.00058	-.00273	-.08223	.08621	-.18415
10.330	1.816	-.01123	.08119	-.04729	-.01444	.00036	-.00060	-.00259	-.04984	.07965	-.24539
10.330	3.939	-.01048	.07506	-.01068	-.01158	.00026	-.00063	-.00237	-.01581	.07414	-.18423
10.330	5.927	-.01075	.07081	.02372	-.00811	.00017	-.00065	-.00258	.01628	.07288	-.15350
10.330	7.936	-.01076	.06789	.06460	-.00426	.00010	-.00072	-.00290	.05461	.07618	-.21488
10.330	10.181	-.00958	.06462	.11381	-.00014	-.00002	-.00082	-.00304	.10060	.08372	-.21475
10.330	15.292	-.00714	.06352	.25552	.00737	-.00019	-.00112	-.00386	.22972	.12866	-.21444
10.330	20.240	-.00556	.06508	.42411	.01594	-.00032	-.00118	-.00539	.37541	.20778	-.18399
10.330	25.461	-.00552	.06578	.62462	.02329	-.00057	-.00114	-.00747	.53568	.32791	-.15339
10.330	30.507	-.00650	.06523	.84139	.02568	-.00079	-.00110	-.00920	.69180	.48333	-.21470
10.330	35.753	-.00648	.06539	1.07415	.02340	-.00109	-.00107	-.01139	.83351	.68068	-.18402
	GRADIENT	.00035	-.00334	.01764	.00021	-.00006	-.00001	.00008	.01604	-.00484	.00149

ORIGINAL PAGE IS
OF FOUR QUALITY

OINBS LARC CFHT 118 (MA-22)

(RJA309) (12 JAN 76)

REFERENCE DATA

SREF * 2690.0000 SQ.FT. XMRP * 1076.7000 IN. XO
 LREF * 474.8000 INCHES YMRP * .0000 IN. YO
 BREF * 936.6800 INCHES ZMRP * 375.0000 IN. ZO
 SCALE * .0100

PARAMETRIC DATA

BETA * .000 T/OA * 95.000
 ELEVON * -30.000 BDFLAP * .000
 NO.JET * 2.000

RUN NO. 309/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.366	-.01423	.12776	-.25261	-.00494	-.00002	-.00225	.01431	-.23134	.16315	95.03775
10.330	-6.397	-.01356	.11572	-.21275	-.00626	-.00038	-.00208	.01225	-.19853	.13871	95.09377
10.330	-4.341	-.00907	.10183	-.16625	-.01458	.00039	-.00260	.00988	-.15807	.11412	94.95895
10.330	-2.335	-.00511	.09158	-.12741	-.02034	.00115	-.00287	.00556	-.12357	.09669	95.08599
10.330	-.245	-.00372	.08370	-.09314	-.01989	.00146	-.00329	.00570	-.09279	.08410	95.10260
10.330	1.855	-.00482	.07787	-.04977	-.01588	.00081	-.00283	.00513	-.05226	.07622	94.87057
10.330	4.086	.00005	.07275	-.01494	-.01194	.00106	-.00371	.00741	-.02008	.07150	95.00594
10.330	6.005	.00025	.06970	.01862	-.00763	.00124	-.00361	.00553	.01122	.07127	94.90503
10.330	7.992	-.00551	.06579	.05731	-.00345	.00002	-.00291	.00606	.04761	.07312	94.95991
10.330	10.051	-.00736	.06177	.10018	-.00094	-.00016	-.00275	.00600	.08786	.07831	95.06111
10.330	15.136	-.01280	.06099	.23923	.00817	-.00157	-.00213	.00418	.21500	.12134	95.05459
10.330	20.259	-.02105	.06218	.41199	.01954	-.00285	-.00155	.00259	.36497	.20099	95.00720
10.330	25.415	-.02543	.06365	.61288	.02704	-.00346	-.00165	.00057	.52625	.32052	94.95144
10.330	30.471	-.02855	.06370	.82930	.02987	-.00376	-.00161	-.00138	.68247	.47544	95.01344
10.330	35.690	-.03958	.06473	1.05782	.02945	-.00566	-.00248	-.00341	.82138	.66970	95.04124
	GRADIENT	.00088	-.00341	.01806	.00048	.00005	-.00010	-.00025	.01650	-.00500	-.00584

DATE 13 APR 78

MA22 - FORCE SOURCE DATA TABULATION

PAGE 239

01N85 LARC CFHT 118 (MA-22)

(RJA310) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 310/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.406	-.01876	.12646	-.25597	-.00696	-.00013	-.00173	.01849	-.23473	.16252	188.14442
10.330	-6.459	-.01077	.11408	-.22043	-.00686	-.00027	-.00300	.01738	-.20620	.13815	187.85295
10.330	-4.344	-.00203	.10036	-.17416	-.01710	.00097	-.00444	.01272	-.16606	.11326	187.98417
10.330	-2.276	.00171	.09044	-.13806	-.02142	.00143	-.00455	.00898	-.13436	.09585	187.65256
10.330	-.317	.00044	.08327	-.10591	-.02103	.00142	-.00431	.00871	-.10544	.08386	187.88684
10.330	1.799	.00115	.07748	-.07117	-.01861	.00152	-.00420	.00852	-.07357	.07520	188.10937
10.330	3.766	.00593	.07179	-.03679	-.01348	.00159	-.00537	.01169	-.04142	.06922	187.77794
10.330	5.937	.00542	.06720	.00592	-.01138	.00206	-.00460	.00823	-.00106	.06745	187.65261
10.330	7.947	.00362	.06416	.04443	-.00446	.00055	-.00502	.01135	.03514	.06969	187.77931
10.330	9.961	-.00096	.06039	.08826	-.00126	.00016	-.00421	.01069	.07648	.07475	187.64871
10.330	15.246	-.01958	.06011	.23551	.01211	-.00393	-.00271	.00707	.21142	.11993	187.76312
10.330	20.430	-.02885	.06078	.41386	.02199	-.00445	-.00200	.00671	.36662	.20142	187.97306
10.330	25.603	-.03377	.06162	.61695	.02856	-.00463	-.00204	.00558	.52975	.32217	187.92045
10.330	30.576	-.04206	.06245	.83365	.03239	-.00599	-.00230	.00276	.68597	.47782	187.74066
10.330	35.767	-.05035	.06213	1.06330	.03042	-.00689	-.00286	.00113	.82645	.67189	188.03521
GRADIENT		.00076	-.00345	.01683	.00049	.00006	-.00007	-.00013	.01528	-.00536	.00229

O1N85N50 LARC CFHT 118 (MA-22)

(RJA311) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 311/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.287	-.02523	.12207	-.26231	.00460	.00173	.00061	.00229	-.24198	.15860	94.49668
10.330	-6.358	-.01902	.10836	-.21985	.00096	.00100	.00016	.00000	-.20650	.13204	94.53780
10.330	-4.290	-.01639	.09454	-.17125	-.00895	.00110	-.00023	.00030	-.16370	.10709	94.47089
10.330	-2.307	-.01182	.08399	-.13472	-.01557	.00141	-.00105	-.00112	-.13123	.08934	94.49372
10.330	-.293	-.00931	.07646	-.10040	-.01543	.00151	-.00138	-.00041	-.10001	.07697	94.41117
10.330	1.958	-.00694	.06963	-.06145	-.01230	.00146	-.00187	.00107	-.06379	.06749	94.49043
10.330	3.775	-.00258	.06506	-.03035	-.00684	.00151	-.00267	.00278	-.03457	.06292	94.40687
10.330	5.921	-.00349	.06086	.00667	-.00245	.00211	-.00187	-.00087	.00035	.06122	94.43879
10.330	7.945	-.00504	.05784	.04661	.00320	.00121	-.00176	-.00036	.03817	.06373	94.58027
10.330	10.149	-.00614	.05423	.09445	.00525	.00078	-.00140	-.00111	.08341	.07002	94.54465
10.330	15.117	-.00667	.05113	.22951	.01600	-.00016	-.00092	-.00573	.20823	.10921	94.40607
10.330	20.156	-.01228	.05160	.39611	.02807	-.00095	-.00029	-.00682	.35407	.18493	94.38472
10.330	25.580	-.01491	.05401	.60762	.03648	-.00114	.00019	-.00986	.52474	.31106	94.40120
10.330	30.575	-.01364	.05330	.81946	.04061	-.00117	.00043	-.01241	.67842	.46272	94.32145
10.330	35.735	-.02123	.05347	1.04344	.04115	-.00296	-.00051	-.01446	.81576	.65281	94.27522
	GRADIENT	.00159	-.00359	.01741	.00037	.00004	-.00028	.00034	.01597	-.00540	-.00618

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 237

01N85N50 LARC CFHT 118 (MA-22)

(RJA312) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 312/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.220	-.03096	.11095	-.26864	.01035	.00206	.00167	.00235	-.25001	.14822	189.52758
10.330	-6.259	-.01717	.09881	-.22927	.00614	.00163	-.00059	.00200	-.21714	.12321	189.65250
10.330	-4.119	-.01205	.08488	-.18345	-.00228	.00235	-.00131	.00023	-.17687	.09783	189.44280
10.330	-2.305	-.00941	.07537	-.15008	-.00590	.00245	-.00157	.00058	-.14692	.08135	189.73775
10.330	-.165	-.00966	.06630	-.11452	-.00786	.00211	-.00127	.00017	-.11433	.06663	189.23976
10.330	1.960	-.00716	.06054	-.08662	-.00533	.00205	-.00136	-.00134	-.08864	.05755	189.18553
10.330	3.874	-.00552	.05617	-.05642	-.00082	.00244	-.00134	-.00128	-.06008	.05223	189.55409
10.330	6.052	-.00576	.05151	-.01886	.00400	.00339	-.00091	-.00333	-.02419	.04923	189.05234
10.330	7.905	.00211	.04823	.02053	.01076	.00296	-.00268	.00165	.01370	.05059	189.49355
10.330	10.142	-.00178	.04512	.07199	.01459	.00248	-.00156	-.00077	.06292	.05709	189.31643
10.330	15.117	-.01272	.04268	.20469	.02887	-.00057	-.00006	-.00701	.18648	.09458	189.16456
10.330	20.172	-.01622	.04187	.37535	.03885	-.00095	.00078	-.00888	.33789	.16874	189.05398
10.330	25.591	-.01777	.04265	.58879	.04602	-.00110	.00111	-.01108	.51261	.29279	188.95039
10.330	30.649	-.02284	.04270	.80483	.05041	-.00223	.00140	-.01518	.67064	.44701	189.26397
10.330	35.817	-.02678	.04220	1.03055	.05083	-.00305	.00094	-.01721	.81097	.63729	188.88080
	GRADIENT	.00075	-.00356	.01566	.00018	-.00001	.00001	-.00025	.01440	-.00567	-.01773

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 238

01N85N50 LARC CFHT 118 (MA-22)

(RJA313) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 313/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEL	CYN	CY	CL	CO	T/OA
10.330	-8.220	-.03783	.10352	-.27603	.01632	.00276	.00222	.00570	-.25840	.14192	254.82658
10.330	-6.269	-.01670	.09084	-.23923	.00989	.00268	-.00083	.00106	-.22788	.11642	254.23391
10.330	-4.176	-.01350	.07817	-.19366	.00328	.00294	-.00118	.00048	-.18745	.09206	254.27788
10.330	-2.349	-.00976	.06917	-.16403	.00151	.00259	-.00192	.00194	-.16106	.07583	253.81042
10.330	-.192	-.01019	.06038	-.12785	.00026	.00246	-.00138	.00093	-.12764	.06081	253.72779
10.330	1.867	-.00739	.05456	-.09986	.00182	.00296	-.00134	.00015	-.10158	.05127	253.74528
10.330	4.071	-.00679	.05099	-.07309	.00574	.00363	-.00112	-.00124	-.07652	.04567	253.61642
10.330	5.758	-.00614	.04797	-.04495	.00862	.00440	-.00065	-.00334	-.04954	.04322	253.21837
10.330	8.028	-.00249	.04313	.00830	.01677	.00363	-.00092	-.00257	.00220	.04387	253.56880
10.330	10.050	-.00282	.04008	.05239	.02127	.00312	-.00101	-.00233	.04459	.04860	253.31661
10.330	14.998	-.01807	.03774	.18737	.03697	-.00060	.00120	-.00814	.17122	.08494	252.98267
10.330	20.394	-.02115	.03649	.37020	.04687	-.00134	.00170	-.01006	.33428	.16321	252.91805
10.330	25.499	-.02517	.03661	.57249	.05362	-.00214	.00160	-.01255	.50097	.27950	253.22903
10.330	30.564	-.02835	.03605	.78911	.05673	-.00287	.00179	-.01633	.66114	.43231	253.28608
10.330	35.705	-.03054	.03468	1.01828	.05523	-.00324	.00174	-.01877	.80664	.62244	252.75088
	GRADIENT	.00075	-.00331	.01472	.00027	.00009	.00004	-.00026	.01357	-.00563	-.06588

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 239

OIN51 LARC CFHT 118 (MA-22)

(RJA314) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 4.000

RUN NO. 314/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.194	-.00909	.12608	-.24813	-.00462	-.00004	-.00294	.01400	-.22762	.16018	189.57745
10.330	-6.468	-.01129	.11523	-.21360	-.00585	-.00030	-.00268	.01271	-.19926	.13858	189.51402
10.330	-4.351	-.01007	.10062	-.16441	-.01473	.00049	-.00267	.01007	-.15630	.11280	189.39756
10.330	-2.289	-.00711	.09018	-.12477	-.02036	.00098	-.00277	.00613	-.12107	.09509	189.43931
10.330	-.271	-.00408	.08301	-.08781	-.01963	.00121	-.00302	.00514	-.08741	.08342	189.11804
10.330	1.786	-.00605	.07766	-.04899	-.01605	.00084	-.00264	.00456	-.05138	.07610	189.05408
10.330	4.052	-.00320	.07267	-.01194	-.01212	.00100	-.00321	.00560	-.01705	.07165	189.06759
10.330	5.953	-.00045	.06861	.01800	-.00789	.00127	-.00365	.00607	.01079	.07011	189.01538
10.330	7.962	-.00697	.06579	.06284	-.00528	.00036	-.00248	.00489	.05312	.07386	189.00247
10.330	9.996	-.00674	.06099	.10198	-.00184	.00013	-.00280	.00647	.08985	.07777	188.97236
10.330	15.131	-.00858	.05974	.24476	.00712	-.00055	-.00242	.00494	.22068	.12156	189.03949
10.330	20.228	-.01813	.06124	.41436	.01906	-.00210	-.00187	.00366	.36763	.20073	188.69423
10.330	25.330	-.02461	.06363	.61167	.02703	-.00333	-.00208	.00249	.52565	.31920	188.80539
10.330	30.585	-.02594	.06382	.83742	.02977	-.00339	-.00209	.00043	.68844	.48103	188.91640
10.330	35.695	-.03922	.06359	1.06079	.02921	-.00534	-.00264	-.00126	.82440	.67059	189.18167
	GRADIENT	.00071	-.00327	.01822	.00047	.00004	-.00005	-.00050	.01667	-.00483	-.04965

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 OF POOR QUALITY

01N51 LARC CFHT 118 (MA-22)

(RJA315) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 4.000

RUN NO. 315/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.231	-.01716	.12395	-.24917	-.00698	.00000	-.00220	.01853	-.22885	.15835	377.64523
10.330	-6.494	-.01233	.11255	-.21569	-.00761	-.00011	-.00291	.01686	-.20157	.13622	377.20238
10.330	-4.159	-.00221	.09786	-.16289	-.01787	.00095	-.00426	.01249	-.15537	.10941	377.39423
10.330	-2.360	-.00008	.08892	-.13071	-.02283	.00141	-.00423	.00813	-.12694	.09423	377.84978
10.330	-.198	.00087	.08104	-.09469	-.02234	.00196	-.00423	.00841	-.09441	.08136	377.13914
10.330	1.853	.00171	.07479	-.05976	-.01998	.00237	-.00460	.00974	-.06215	.07282	377.15824
10.330	4.054	.00715	.06893	-.02037	-.01471	.00223	-.00582	.01363	-.02519	.06732	377.18470
10.330	5.726	.00785	.06569	.00621	-.01203	.00258	-.00541	.01104	-.00037	.06598	377.56256
10.330	7.936	.00852	.06201	.05143	-.00532	.00202	-.00586	.01361	.04238	.06852	377.47528
10.330	9.993	.00404	.05866	.09466	-.00256	.00130	-.00477	.01223	.08304	.07420	376.65775
10.330	14.956	-.01398	.05824	.22847	.01048	-.00274	-.00317	.00898	.20570	.11524	376.74343
10.330	20.358	-.02766	.05879	.40907	.02130	-.00415	-.00230	.00897	.36307	.19743	377.25829
10.330	25.421	-.03257	.06109	.60911	.02913	-.00483	-.00245	.00757	.52391	.31665	377.15274
10.330	30.464	-.03586	.06063	.82783	.03131	-.00466	-.00235	.00527	.68281	.47196	377.27677
10.330	35.615	-.04883	.06081	1.05333	.03073	-.00632	-.00268	.00289	.82089	.66283	377.45761
	GRADIENT	.00100	-.00348	.01725	.00047	.00017	-.00017	.00021	.01576	-.00508	-.05513

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MA22 - FORCE SOURCE DATA TABULATION

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Q1N51 LARC CFHT 118 (MA-22)

(RJA318) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 510.800
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 4.000

RUN NO. 316/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.400	-.01903	.12357	-.25559	-.00662	.00032	-.00252	.02245	-.23480	.15958	509.58040
10.330	-6.448	-.00760	.11164	-.21767	-.00815	.00030	-.00414	.01992	-.20378	.13538	509.34015
10.330	-4.367	-.00047	.09833	-.17196	-.01845	.00136	-.00510	.01437	-.16398	.11114	508.62708
10.330	-2.304	.00253	.08795	-.13582	-.02318	.00181	-.00509	.01104	-.13217	.09334	507.73761
10.330	-.185	.00176	.07969	-.10089	-.02329	.00199	-.00485	.01125	-.10063	.08001	507.59738
10.330	1.934	.00324	.07372	-.06796	-.02109	.00254	-.00496	.01147	-.07041	.07139	507.32439
10.330	3.832	.00698	.06853	-.03561	-.01764	.00298	-.00569	.01363	-.04011	.06600	507.25776
10.330	5.965	.00846	.06340	.00389	-.01215	.00292	-.00565	.01279	-.00272	.06346	508.44571
10.330	7.833	.00949	.06052	.04164	-.00741	.00239	-.00621	.01497	.03301	.06563	506.61007
10.330	10.017	.00457	.05774	.08908	-.00230	.00120	-.00553	.01436	.07768	.07235	506.78926
10.330	15.286	-.02131	.05702	.23130	.01206	-.00395	-.00304	.01074	.20808	.11598	506.63368
10.330	20.388	-.03465	.05772	.40367	.02251	-.00543	-.00261	.01140	.35827	.19474	506.31798
10.330	25.425	-.04093	.05981	.60413	.03039	-.00596	-.00266	.00978	.51994	.31339	505.39668
10.330	30.501	-.04354	.05915	.82238	.03217	-.00566	-.00255	.00756	.67856	.46836	505.17369
10.330	35.626	-.05218	.05869	1.05151	.03072	-.00666	-.00290	.00537	.82052	.66020	506.61477
	GRADIENT	.00075	-.00358	.01650	.00017	.00019	-.00005	-.00006	.01499	-.00545	-.15323

01N51 LARC CFHT 118 (MA-22)

(RJA317) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = -30.000 BUFLAP = .000
 NO.JET = 4.000

RUN NO. 317/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.248	-.01392	.12882	-.23917	-.00827	.00123	-.00057	-.00421	-.21723	.18165	-.60388
10.330	-6.274	-.01037	.11749	-.20098	-.00714	.00060	-.00086	-.00330	-.18694	.13875	-.54898
10.330	-4.182	-.01202	.10334	-.15467	-.01332	.00072	-.00057	-.00384	-.14673	.11434	-.54839
10.330	-2.305	-.01141	.09342	-.11709	-.01681	.00067	-.00063	-.00376	-.11324	.09806	-.54888
10.330	-.285	-.01190	.08649	-.08223	-.01667	.00052	-.00061	-.00359	-.08180	.08690	-.60358
10.330	1.790	-.01111	.08138	-.04694	-.01463	.00038	-.00066	-.00313	-.04946	.07988	-.54842
10.330	3.736	-.01151	.07577	-.01517	-.01178	.00028	-.00071	-.00280	-.02008	.07462	-.54860
10.330	5.938	-.01115	.07123	.02389	-.00804	.00017	-.00072	-.00319	.01639	.07332	-.49403
10.330	7.951	-.01071	.06804	.06318	-.00396	.00010	-.00079	-.00326	.05317	.07612	-.60319
10.330	10.004	-.01059	.06499	.10782	-.00007	.00000	-.00088	-.00359	.09489	.08273	-.54842
10.330	15.139	-.00807	.06383	.25242	.00711	-.00014	-.00119	-.00423	.22699	.12754	-.60321
10.330	20.274	-.00596	.06516	.42679	.01608	-.00029	-.00125	-.00572	.37777	.20901	-.54813
10.330	25.350	-.00634	.06593	.62656	.02344	-.00054	-.00124	-.00772	.53800	.32784	-.54857
10.330	30.597	-.00609	.06588	.85084	.02607	-.00076	-.00119	-.00959	.69885	.48978	-.54822
10.330	35.752	-.00616	.06530	1.08083	.02343	-.00103	-.00122	-.01179	.83899	.68451	-.54895
10.330	GRADIENT	.00007	-.00336	.01751	.00027	-.00006	-.00002	.00014	.01590	-.00489	.00005

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MA22 - FORCE SOURCE DATA TABULATION

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OIN51 LARC CFHT 118 (MA-22)

(RJA318) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 8DOFLAP = .000
 NO.JET = 4.000

RUN NO. 318/ 0 RN/L = .59 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.425	-.01356	.10636	-.17436	-.05064	.00048	-.00055	-.00479	-.15690	.13078	-.65817
10.330	-6.448	-.01304	.09915	-.14561	-.04422	.00022	-.00056	-.00463	-.13355	.11487	-.54871
10.330	-4.315	-.01209	.09258	-.11376	-.04019	.00029	-.00069	-.00400	-.10647	.10087	-.54848
10.330	-2.308	-.01123	.08383	-.08142	-.03896	.00019	-.00065	-.00438	-.07798	.08705	-.49352
10.330	-.250	-.01230	.07897	-.05270	-.03578	.00010	-.00062	-.00376	-.05236	.07920	-.54843
10.330	1.792	-.01092	.07505	-.02079	-.03232	.00006	-.00068	-.00339	-.02312	.07436	-.54886
10.330	4.005	-.01172	.07245	.01474	-.02911	-.00002	-.00066	-.00324	.00964	.07330	-.54825
10.330	5.704	-.01167	.06998	.04523	-.02655	.00000	-.00061	-.00362	.03805	.07413	-.54876
10.330	7.965	-.01184	.06892	.09339	-.02546	-.00028	-.00065	-.00358	.08294	.08119	-.60375
10.330	9.983	-.01116	.06645	.14079	-.02388	-.00037	-.00080	-.00368	.12714	.08885	-.54869
10.330	14.906	-.01060	.06801	.29627	-.03102	-.00072	-.00091	-.00456	.26881	.14193	-.54877
10.330	20.273	-.01086	.07310	.50339	-.04055	-.00102	-.00086	-.00674	.44688	.24300	-.54858
10.330	25.270	-.01229	.07677	.72433	-.05401	-.00134	-.00073	-.00872	.62225	.37863	-.54831
10.330	30.271	-.01357	.08009	.96565	-.07310	-.00163	-.00050	-.01113	.79362	.55594	-.54864
10.330	35.402	-.01706	.08366	1.22255	-.09818	-.00201	-.00045	-.01309	.94804	.77643	-.54832
	GRADIENT	.00005	-.00236	.01532	.00139	-.00004	.00000	.00012	.01385	-.00325	-.00267

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MA22 - FORCE SOURCE DATA TABULATION

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OIN51 LARC CFHT 118 (MA-22)

(RJA319) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 4.000

RUN NO. 319/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLH	CEL	CYN	CY	CL	CD	T/OA
10.330	-8.347	-.00846	.10384	-.17257	-.04988	.00065	-.00200	-.00091	-.15567	.12779	189.37991
10.330	-6.376	-.00897	.09407	-.15184	-.04191	-.00095	-.00272	.00990	-.14046	.11035	189.02566
10.330	-4.208	-.01226	.08695	-.11631	-.04097	-.00060	-.00219	.00908	-.10962	.09525	188.91806
10.330	-2.370	-.00858	.08124	-.08939	-.03937	-.00028	-.00283	.00708	-.08598	.08486	188.69375
10.330	-.183	-.00532	.07615	-.05583	-.03630	-.00026	-.00306	.00468	-.05558	.07633	188.44752
10.330	1.973	-.00320	.07302	-.02578	-.02870	-.00170	-.00360	.00648	-.02828	.07209	188.43390
10.330	3.867	-.00295	.06979	.00596	-.02618	-.00116	-.00364	.00605	.00123	.07003	188.14468
10.330	5.867	-.00206	.06724	.03950	-.02359	-.00064	-.00374	.00563	.03242	.07092	188.86844
10.330	7.899	-.00933	.06545	.07982	-.02072	-.00222	-.00321	.00591	.07007	.07580	188.51821
10.330	9.934	-.01060	.06334	.12619	-.02142	-.00254	-.00322	.00703	.11337	.08416	188.74845
10.330	15.036	-.01933	.06434	.28525	-.02655	-.00341	-.00233	.00409	.25879	.13614	188.70674
10.330	20.129	-.02735	.06814	.47984	-.03257	-.00467	-.00189	.00234	.42709	.22911	188.79653
10.330	25.437	-.03988	.07282	.71284	-.04652	-.00573	-.00162	.00121	.61246	.37194	188.31751
10.330	30.394	-.04417	.07674	.95355	-.06654	-.00591	-.00163	-.00054	.78367	.54864	188.55050
10.330	35.509	-.05139	.08055	1.21124	-.09106	-.00656	-.00147	-.00350	.93919	.76909	188.67834
	GRADIENT	.00117	-.00207	.01503	.00197	-.00013	-.00018	-.00032	.01363	-.00308	-.08773

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 245

01N51 LARC CFHT 118 (MA-22)

(RJA320) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 4.000

RUN NO. 320/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.457	-.00309	.10261	-.17401	-.04981	.00067	-.00352	.00358	-.15703	.12709	378.83738
10.330	-6.478	-.00765	.09312	-.15696	-.04184	-.00145	-.00344	.01603	-.14545	.11024	378.82247
10.330	-4.359	-.00724	.08453	-.12247	-.04150	-.00110	-.00354	.01437	-.11570	.09359	378.49714
10.330	-2.348	-.00097	.07845	-.09421	-.04132	-.00093	-.00431	.01013	-.09092	.08225	378.14359
10.330	-.339	.00234	.07342	-.06993	-.03683	-.00098	-.00482	.00950	-.08949	.07383	378.47541
10.330	1.915	.00450	.06974	-.03917	-.03031	-.00117	-.00554	.01109	-.04148	.06839	377.75414
10.330	3.848	.00496	.06714	-.00707	-.02451	-.00186	-.00627	.01348	-.01156	.06652	377.19321
10.330	5.928	.00550	.06457	.02605	-.02202	-.00090	-.00603	.01126	.01924	.06692	376.94782
10.330	7.764	.00323	.06232	.06153	-.01774	-.00212	-.00656	.01405	.05254	.07006	376.18634
10.330	9.973	-.00598	.06034	.11385	-.01913	-.00316	-.00529	.01251	.10168	.07914	377.51319
10.330	14.862	-.02301	.06199	.26676	-.02265	-.00515	-.00320	.00791	.24193	.12834	376.77139
10.330	20.222	-.04789	.06589	.46589	-.02756	-.00809	-.00180	.00629	.41439	.22287	376.48721
10.330	25.207	-.05573	.07091	.68847	-.04108	-.00843	-.00203	.00624	.59271	.35737	377.09298
10.330	30.427	-.06361	.07503	.94187	-.06157	-.00877	-.00209	.00414	.77415	.54170	376.51980
10.330	35.546	-.07682	.07889	1.19921	-.08644	-.00972	-.00186	.00146	.92987	.76136	376.22784
	GRADIENT	.00144	-.00210	.01382	.00218	-.00009	-.00032	-.00004	.01246	-.00328	-.14552

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MA22 - FORCE SOURCE DATA TABULATION

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01N51 LARC CFHT 118 (MA-22)

(RJA321) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 SREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 510.800
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 321/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.233	-.00732	.09855	-.18600	-.04511	-.00150	-.00402	.02278	-.16997	.12417	509.15565
10.330	-6.489	-.00894	.09092	-.16037	-.04147	-.00181	-.00371	.02019	-.14907	.10846	508.22892
10.330	-4.375	-.00310	.08235	-.12573	-.04121	-.00140	-.00461	.01734	-.11908	.09170	508.39043
10.330	-2.360	.00376	.07600	-.10105	-.04035	-.00149	-.00529	.01239	-.09783	.08009	507.45311
10.330	-.317	.00269	.07098	-.07834	-.03597	-.00144	-.00543	.01217	-.07795	.07142	506.66585
10.330	1.962	.00277	.06781	-.04622	-.03161	-.00146	-.00548	.01201	-.04852	.06619	506.20617
10.330	3.697	.00494	.06530	-.02236	-.02681	-.00146	-.00623	.01387	-.02652	.06372	506.53788
10.330	5.917	.00479	.06225	.01458	-.02135	-.00156	-.00651	.01394	.00808	.06342	506.15878
10.330	7.904	.00636	.06022	.06250	-.02010	-.00137	-.00698	.01626	.05362	.06824	505.95269
10.330	9.928	-.00067	.05934	.10905	-.01924	-.00274	-.00608	.01489	.09719	.07725	505.77415
10.330	15.028	-.02949	.06042	.26406	-.01930	-.00681	-.00330	.00989	.23936	.12683	505.83619
10.330	20.113	-.05549	.06453	.45475	-.02486	-.00984	-.00190	.00883	.40483	.21698	505.45689
10.330	25.425	-.06551	.07037	.69105	-.03918	-.01006	-.00226	.00859	.59391	.36024	505.24359
10.330	30.460	-.07675	.07366	.93421	-.05819	-.01068	-.00217	.00663	.76794	.53708	504.97419
10.330	35.567	-.08970	.07743	1.19076	-.08301	-.01137	-.00225	.00474	.92357	.75560	504.90682
	GRADIENT	.00073	-.00207	.01278	.00183	-.00000	-.00017	-.00036	.01145	-.00342	-.24420

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 247

01N85 LARC CFHT 118 (MA-22)

(RJA322) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 322/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.241	-.00516	.10244	-.17175	-.04776	.00051	-.00275	.00165	-.15529	.12600	95.31991
10.330	-6.480	-.01063	.09382	-.15410	-.04148	-.00110	-.00258	.01161	-.14253	.11061	95.22752
10.330	-4.335	-.01175	.08624	-.12006	-.04096	-.00063	-.00225	.01076	-.11320	.09508	95.40539
10.330	-2.328	-.00533	.08062	-.08993	-.04036	-.00012	-.00334	.00807	-.08658	.08420	95.27179
10.330	-.304	-.00189	.07590	-.06327	-.03671	.00000	-.00382	.00665	-.06287	.07623	95.21208
10.330	1.759	-.00459	.07280	-.02980	-.02924	-.00149	-.00361	.00709	-.03202	.07185	95.28963
10.330	3.896	-.00345	.06965	.00594	-.02661	-.00082	-.00365	.00633	.00120	.06989	95.10201
10.330	5.862	-.00269	.06740	.04040	-.02434	-.00029	-.00347	.00510	.03331	.07117	95.31712
10.330	8.016	-.00923	.06491	.08140	-.01999	-.00251	-.00302	.00604	.07156	.07563	95.16191
10.330	10.047	-.01114	.06308	.12810	-.02110	-.00224	-.00289	.00620	.11513	.08448	95.18030
10.330	15.239	-.02212	.06416	.28987	-.02578	-.00385	-.00190	.00350	.26282	.13809	95.37915
10.330	20.331	-.03165	.06829	.48492	-.03290	-.00494	-.00131	.00087	.43098	.23252	95.25253
10.330	25.394	-.03786	.07282	.70819	-.04631	-.00541	-.00119	-.00123	.60854	.36948	95.23645
10.330	30.415	-.04552	.07671	.94931	-.06580	-.00594	-.00097	-.00303	.77983	.54676	95.18152
10.330	35.468	-.05442	.08006	1.19968	-.08946	-.00676	-.00107	-.00553	.93062	.76131	95.24112
	GRADIENT	.00084	-.00199	.01520	.00194	-.00009	-.00015	-.00048	.01380	-.00304	-.02869

01N85 LARC CFHT 118 (MA-22)

(RJA323) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 323/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEB	CYN	CY	CL	CD	T/OA
10.330	-8.394	-.00956	.09989	-.18724	-.04505	-.00136	-.00354	.01999	-.17065	.12615	189.83861
10.330	-6.406	-.01072	.09142	-.15704	-.04105	-.00169	-.00299	.01744	-.14586	.10839	189.66547
10.330	-4.337	-.00592	.08294	-.12533	-.04062	-.00121	-.00404	.01571	-.11870	.09218	189.47717
10.330	-2.339	.00101	.07736	-.10072	-.04020	-.00092	-.00477	.01083	-.09748	.08141	189.77800
10.330	-.309	.00147	.07284	-.07658	-.03525	-.00093	-.00471	.00982	-.07618	.07325	189.44826
10.330	1.925	.00101	.06963	-.04286	-.02931	-.00126	-.00491	.01010	-.04517	.06815	189.38663
10.330	3.863	.00477	.06692	-.00931	-.02404	-.00134	-.00624	.01405	-.01380	.06614	189.35219
10.330	5.939	.00159	.06472	.02814	-.02423	-.00042	-.00503	.00908	.02129	.06729	189.01614
10.330	7.778	-.00006	.06259	.06383	-.01772	-.00214	-.00569	.01277	.05477	.07066	189.34421
10.330	10.007	-.00957	.06082	.11593	-.02026	-.00300	-.00435	.1093	.10360	.08004	189.22614
10.330	15.106	-.03153	.06140	.27093	-.02048	-.00644	-.00218	.00631	.24557	.12888	189.18435
10.330	20.223	-.04591	.06594	.46431	-.02754	-.00773	-.00146	.00502	.41289	.22238	189.35974
10.330	25.200	-.05569	.07050	.68335	-.04066	-.00831	-.00161	.00448	.58830	.35475	189.07345
10.330	30.407	-.06920	.07467	.93124	-.05921	-.00955	-.00135	.00144	.76536	.53573	189.07851
10.330	35.550	-.08038	.07837	1.18547	-.08394	-.01012	-.00156	-.00049	.91895	.75301	189.00391
	GRADIENT	.00103	-.00192	.01403	.00214	-.00003	-.00022	-.00019	.01269	-.00316	-.03133

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(RJA324) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 324/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CO	T/QA
10.330	-8.410	-.01339	.10470	-.17121	-.04938	.00045	-.00049	-.00454	-.15406	.12861	-.30636
10.330	-6.393	-.01329	.09750	-.14302	-.04306	.00020	-.00055	-.00429	-.13128	.11282	-.36776
10.330	-4.270	-.01356	.09116	-.11015	-.03927	.00024	-.00063	-.00401	-.10305	.09911	-.36772
10.330	-2.427	-.01350	.08247	-.08243	-.03840	.00017	-.00063	-.00387	-.07887	.08589	-.39833
10.330	-.170	-.01263	.07752	-.04944	-.03522	.00008	-.00057	-.00369	-.04921	.07767	-.33721
10.330	1.942	-.01375	.07373	-.01808	-.03141	.00004	-.00065	-.00306	-.02057	.07307	-.36730
10.330	3.861	-.01264	.07181	.01354	-.02883	-.00001	-.00060	-.00325	.00867	.07256	-.36741
10.330	5.950	-.01328	.06857	.05001	-.02548	-.00001	-.00057	-.00333	.04263	.07338	-.33672
10.330	7.755	-.01390	.06806	.08716	-.02495	-.00023	-.00063	-.00326	.07718	.07920	-.36753
10.330	9.984	-.01178	.06500	.13714	-.02259	-.00025	-.00072	-.00394	.12380	.08779	-.30619
10.330	15.070	-.01190	.06706	.29710	-.03058	-.00069	-.00086	-.00458	.26945	.14200	-.36757
10.330	20.118	-.01236	.07192	.48957	-.03954	-.00095	-.00076	-.00654	.43496	.23593	-.30620
10.330	25.369	-.01422	.07588	.72152	-.05291	-.00131	-.00064	-.00870	.61943	.37769	-.36760
10.330	30.410	-.01589	.07911	.96038	-.07181	-.00160	-.00046	-.01085	.78821	.55435	-.30619
10.330	35.549	-.01750	.08250	1.21240	-.09591	-.00197	-.00039	-.01316	.93846	.77202	-.36705
	GRADIENT	.00008	-.00229	.01510	.00135	-.00003	.00000	.00011	.01365	-.00319	.00167

OIN85N50 LARC CFHT 118 (MA-22)

(RJAS25) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 BOFLAP = .000
 NOJET = 2.000

RUN NO. 325/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.437	-.00958	.10610	-.17525	-.05072	.00049	-.00050	-.00393	-.15779	.13068	.00000
10.330	-8.291	-.00708	.09824	-.14358	-.04384	.00022	-.00054	-.00372	-.13195	.11339	.00000
10.330	-4.254	-.00806	.09224	-.11206	-.04015	.00027	-.00061	-.00336	-.10491	.10030	.00000
10.330	-2.253	-.00686	.08293	-.08084	-.03882	.00016	-.00057	-.00341	-.07752	.08604	.00000
10.330	-.264	-.00846	.07860	-.05147	-.03587	.00008	-.00048	-.00339	-.05111	.07864	.00000
10.330	1.823	-.00761	.07473	-.02018	-.03230	.00004	-.00057	-.00292	-.02255	.07405	.00000
10.330	3.951	-.00785	.07251	.01541	-.02926	-.00001	-.00054	-.00279	.01037	.07339	.00000
10.330	5.921	-.00792	.06962	.04913	-.02676	-.00013	-.00056	-.00270	.04169	.07432	.00000
10.330	7.910	-.00838	.06879	.09286	-.02537	-.00025	-.00058	-.00299	.08251	.08091	.00000
10.330	10.122	-.00571	.06534	.14192	-.02296	-.00026	-.00070	-.00341	.12823	.08926	.00000
10.330	15.086	-.00672	.06791	.29976	-.03078	-.00070	-.00077	-.00431	.27175	.14359	.00000
10.330	20.170	-.00831	.07257	.49514	-.03958	-.00099	-.00078	-.00593	.43975	.23885	.00000
10.330	25.437	-.00827	.07613	.72336	-.05317	-.00129	-.00067	-.00828	.62054	.37945	.00000
10.330	30.448	-.01167	.07921	.96479	-.07235	-.00161	-.00045	-.01038	.79159	.55719	.00000
10.330	35.403	-.01254	.08298	1.21498	-.09642	-.00197	-.00034	-.01268	.94226	.77150	.00000
	GRADIENT	-.00002	-.00232	.01541	.00138	-.00003	.00001	.00008	.01394	-.00319	.00000

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(RJA326) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = 10.000 GDFLAP = .000
 NO.JET = 2.000

RUN NO. 326/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.244	-.01446	.09683	-.18512	-.03837	.00211	.00057	-.00890	-.16932	.12238	94.63640
10.330	-6.300	-.01698	.08632	-.16386	-.03164	.00066	.00028	.00204	-.15340	.10378	94.50771
10.330	-4.241	-.01601	.07908	-.13059	-.03141	.00140	.00015	.00181	-.12439	.08852	94.47785
10.330	-2.275	-.00944	.07371	-.10332	-.03045	.00212	-.00090	-.00011	-.10031	.07775	94.38600
10.330	-.256	-.00611	.06911	-.07866	-.02646	.00217	-.00135	-.00090	-.07835	.06946	94.40453
10.330	1.833	-.00314	.06526	-.04879	-.01957	.00198	-.00193	.00067	-.05086	.06367	94.16142
10.330	3.970	-.00158	.06218	-.01513	-.01464	.00237	-.00197	.00053	-.01939	.06098	94.35641
10.330	5.926	.00081	.05988	.02036	-.01087	.00295	-.00190	-.00003	.01407	.06166	94.24310
10.330	8.090	-.00295	.05783	.06298	-.00570	.00137	-.00141	-.00041	.05422	.06612	94.13906
10.330	10.130	-.00140	.05611	.10884	-.00707	.00172	-.00126	-.00089	.09728	.07437	94.15401
10.330	15.085	-.00342	.05573	.25788	-.01032	.00086	-.00053	-.00444	.23449	.12092	94.39532
10.330	20.208	-.00624	.05923	.45323	-.01704	-.00010	-.00009	-.00676	.40487	.21214	94.29130
10.330	25.393	-.00669	.06433	.68199	-.03089	-.00042	.00007	-.00906	.58851	.35057	94.55274
10.330	30.364	-.00786	.06807	.92275	-.05021	-.00070	.00033	-.01137	.76177	.52517	94.40863
10.330	35.555	-.01357	.07170	1.18452	-.07517	-.00163	.00054	-.01469	.92198	.74712	94.26761
	GRADIENT	.00170	-.00205	.01391	.00217	.00009	-.00026	-.00008	.01265	-.00335	-.02256

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OF POOR QUALITY

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(RJA327) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 327/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.301	-.02581	.08600	-.21713	-.02187	.00295	.00116	.00078	-.20244	.11645	189.81834
10.330	-6.356	-.02425	.07690	-.18540	-.01921	.00258	.00108	-.00037	-.17574	.09695	189.42597
10.330	-4.281	-.01694	.07011	-.15206	-.01859	.00302	.00026	-.00092	-.14640	.08127	189.52254
10.330	-2.275	-.01041	.06392	-.12963	-.01666	.00351	-.00076	-.00164	-.12699	.06901	189.46739
10.330	-.100	-.00792	.05896	-.10145	-.01299	.00327	-.00041	-.00213	-.10135	.05914	189.19556
10.330	2.082	-.00571	.05566	-.07645	-.00771	.00341	-.00078	-.00267	-.07842	.05285	188.87750
10.330	3.942	-.00482	.05306	-.04975	-.00399	.00362	-.00087	-.00181	-.05328	.04951	189.02903
10.330	6.097	.00119	.05078	-.00873	-.00160	.00437	-.00124	-.00273	-.01407	.04956	188.97475
10.330	8.039	.00441	.04825	.03426	.00592	.00339	-.00225	.00175	.02718	.05257	188.90516
10.330	10.136	.00077	.04729	.08259	.00509	.00325	-.00142	-.00045	.07298	.06109	188.93041
10.330	15.117	-.00423	.04747	.23092	.00553	.00171	.00001	-.00507	.21055	.10605	189.07237
10.330	20.217	-.00962	.05078	.42652	.00113	-.00004	.00094	-.00826	.38269	.19505	189.23011
10.330	25.339	-.00907	.05574	.65141	-.01317	-.00036	.00080	-.00957	.56488	.32917	189.07533
10.330	30.550	-.01859	.05994	.90409	-.03231	-.00171	.00140	-.01361	.74812	.51116	189.11413
10.330	35.661	-.01911	.06375	1.16522	-.05732	-.00200	.00118	-.01602	.90956	.73111	189.02145
	GRADIENT	.00139	-.00204	.01239	.00183	.00005	-.00011	-.00014	.01128	-.00384	-.07672

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(RJA328) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 328/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CO	T/QA
10.330	-8.264	-.03013	.07873	-.23216	-.01180	.00376	.00200	.00007	-.21843	.11128	255.14725
10.330	-6.332	-.02437	.06985	-.19920	-.00887	.00356	.00114	.00006	-.19028	.09140	255.11928
10.330	-4.227	-.01508	.06252	-.17181	-.00694	.00438	-.00027	-.00114	-.16674	.07501	254.71266
10.330	-2.233	-.01065	.05728	-.14636	-.00472	.00444	-.00073	-.00038	-.14401	.06294	254.41751
10.330	-.075	-.01394	.05203	-.11661	-.00208	.00413	.00015	-.00135	-.11654	.05218	253.74951
10.330	2.057	-.01095	.04833	-.09106	.00090	.00420	-.00018	-.00110	-.09273	.04503	253.35129
10.330	3.936	-.00404	.04697	-.06577	.00327	.00455	-.00067	-.00165	-.06884	.04234	253.77135
10.330	6.083	-.00088	.04540	-.02760	.00516	.00500	-.00064	-.00408	-.03226	.04222	253.75706
10.330	8.065	-.00146	.04293	.02326	.01118	.00431	-.00058	-.00234	.01701	.04577	253.04995
10.330	10.122	-.00253	.04196	.07088	.01204	.00385	.00007	-.00435	.06240	.05377	253.33130
10.330	15.296	-.00513	.04190	.22366	.01439	.00197	.00088	-.00637	.20469	.09942	253.56529
10.330	20.416	-.01732	.04483	.41558	.01168	-.00025	.00187	-.00933	.37384	.18699	253.36162
10.330	25.496	-.01821	.05008	.64230	-.001	-.00094	.00177	-.01079	.55819	.32168	253.46710
10.330	30.445	-.02194	.05434	.88259	-.01961	-.00198	.00209	-.01439	.73336	.49407	252.77922
10.330	35.621	-.02168	.05806	1.14516	-.04492	-.00221	.00170	-.01646	.89707	.71417	252.89952
	GRADIENT	.00104	-.00195	.01297	.00126	.00000	-.00001	-.00008	.01198	-.00405	-.14486

01N84 LARC CFHT 118 (MA-22)

(RJA329) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 BOFLAP = .000
 NOJET = 2.000

RUN NO. 329/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.365	-.03154	.09885	-.19034	-.04783	-.00142	.00762	-.03426	-.17393	.12349	94.90631
10.330	-6.413	-.04092	.08967	-.16312	-.04372	-.00393	.01039	-.04005	-.15208	.10733	94.76706
10.330	-4.307	-.05600	.08216	-.13154	-.04422	-.00551	.01315	-.03801	-.12500	.09181	94.60620
10.330	-2.297	-.06616	.07739	-.10513	-.04179	-.00646	.01425	-.03408	-.10195	.08154	94.67937
10.330	-.261	-.06833	.07331	-.08018	-.03698	-.00659	.01405	-.03212	-.07984	.07368	94.62052
10.330	1.829	-.06412	.07070	-.05290	-.03284	-.00588	.01217	-.02756	-.05513	.06897	94.51962
10.330	3.772	-.05731	.06787	-.02308	-.02846	-.00492	.01023	-.02406	-.02749	.06621	94.49523
10.330	5.956	-.04782	.06473	.02004	-.02553	-.00420	.00802	-.01931	.01322	.06646	94.41122
10.330	7.917	-.04106	.06301	.06755	-.02440	-.00321	.00557	-.01405	.05823	.07171	94.45237
10.330	9.974	-.02637	.06103	.11583	-.02187	-.00056	.00451	-.01674	.10351	.08017	94.19894
10.330	15.084	-.00852	.06229	.27450	-.02629	.00154	.00231	-.01637	.24883	.13158	94.34484
10.330	20.171	.00191	.06674	.47159	-.03375	.00211	.00165	-.01774	.41965	.22526	94.27831
10.330	25.507	.00398	.07213	.71490	-.04792	.00187	.00169	-.01976	.61416	.37295	94.30287
10.330	30.437	.00616	.07616	.95706	-.06751	.00166	.00196	-.02186	.78658	.55050	94.26588
10.330	35.581	.01168	.07984	1.21747	-.09311	.00182	.00217	-.02420	.94372	.77332	94.24034
10.330	GRADIENT	-.00003	-.00174	.01327	.00200	.00009	-.00039	.00170	.01192	-.00315	-.01887

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MA22 - FORCE SOURCE DATA TABULATION

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OINB4 LARC CFHT 118 (MA-22)

(RJA330) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 330/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.404	-.06875	.09211	-.20251	-.04308	-.00898	.02116	-.07068	-.18688	.12072	189.66538
10.330	-6.320	-.08669	.08340	-.17486	-.03959	-.01085	.02407	-.06978	-.18462	.10214	189.00034
10.330	-4.368	-.09977	.07859	-.14553	-.04106	-.01189	.02554	-.06310	-.13913	.08945	188.82537
10.330	-2.066	-.09621	.07443	-.11760	-.03650	-.01071	.02262	-.05520	-.11484	.07862	189.06112
10.330	-.265	-.08525	.06977	-.09566	-.03431	-.00895	.01858	-.04362	-.09533	.07021	188.33507
10.330	1.782	-.07139	.06657	-.06996	-.03121	-.00670	.01429	-.03348	-.07200	.06436	188.60774
10.330	3.897	-.05841	.06455	-.03749	-.02861	-.00418	.01056	-.02453	-.04179	.06186	188.31927
10.330	5.861	-.04469	.06274	-.00153	-.02732	-.00246	.00741	-.01853	-.00793	.06225	188.47090
10.330	7.889	-.03379	.06050	.04409	-.02413	-.00121	.00545	-.01444	.03537	.06598	188.68023
10.330	9.947	-.03042	.05872	.09414	-.02087	-.00007	.00567	-.01838	.08258	.07410	188.51861
10.330	15.129	-.01670	.05954	.25763	-.02358	.00178	.00470	-.02124	.23316	.12472	188.08764
10.330	20.205	.00107	.06465	.45627	-.03039	.00378	.00416	-.02561	.40586	.21825	188.12548
10.330	25.294	.00740	.06941	.68774	-.04333	.00346	.00420	-.02886	.59215	.35660	188.36350
10.330	30.301	.01429	.07330	.93317	-.06172	.00373	.00459	-.03051	.76870	.53411	188.04606
10.330	35.485	.01791	.07721	1.19830	-.08740	.00358	.00478	-.03249	.93092	.75847	188.07200
	GRADIENT	.00526	-.00176	.01294	.00148	.00095	-.00187	.00484	.01166	-.00341	-.07016

01N84 LARC CFHT 118 (MA-22)

(RJAB31) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 331/ 0 RN/L = .99 GRADIENT INTERVAL = -3.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/OA
10.330	-8.346	-.09336	.08736	-.21393	-.03762	-.01305	.02922	-.08914	-.19899	.11748	254.97334
10.330	-6.380	-.11355	.08074	-.18531	-.03714	-.01424	.03178	-.08466	-.17519	.10083	254.77465
10.330	-4.278	-.11815	.07657	-.15157	-.03769	-.01369	.03032	-.07441	-.14543	.08767	254.37240
10.330	-2.316	-.10589	.07239	-.12508	-.03454	-.01157	.02543	-.06228	-.12206	.07738	254.21737
10.330	-.268	-.09090	.06711	-.10113	-.03244	-.00902	.01988	-.04748	-.10081	.06758	253.62742
10.330	1.794	-.06923	.06389	-.07474	-.02933	-.00611	.01451	-.03633	-.07671	.06152	253.57115
10.330	3.883	-.05590	.06230	-.04501	-.02835	-.00362	.01071	-.02771	-.04913	.05911	253.64316
10.330	5.976	-.04837	.06170	-.00986	-.02714	-.00224	.00823	-.02103	-.01623	.06034	253.57032
10.330	7.778	-.04496	.05996	.02812	-.02559	-.00209	.00733	-.01848	.01975	.06322	253.68480
10.330	10.010	-.03905	.05680	.08679	-.02003	-.00015	.00758	-.02093	.07559	.07102	252.93252
10.330	14.880	-.02553	.05765	.23629	-.02215	.00143	.00662	-.02396	.21356	.11639	253.06665
10.330	20.159	-.00122	.06262	.44323	-.02845	.00452	.00584	-.02989	.39450	.21153	252.75632
10.330	25.222	.00842	.06760	.67402	-.04030	.00446	.00591	-.03442	.58095	.34838	252.58013
10.330	30.478	.01517	.07195	.93261	-.05926	.00477	.00645	-.03639	.76725	.53503	253.00328
10.330	35.556	.02021	.07572	1.19518	-.08499	.00439	.00673	-.03841	.92831	.75660	252.32805
	GRADIENT	.00789	-.00181	.01290	.00117	.00125	-.00245	.00584	.01165	-.00356	-.10266

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MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (MA-22)

(RJA332) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 47.500
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 332/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CSL	CYN	CY	CL	CO	T/QA
10.330	-8.334	-.00291	.10330	-.17716	-.04723	.00023	-.00264	.00078	-.16032	.12788	47.92948
10.330	-6.357	-.00126	.09599	-.14776	-.04126	-.00014	-.00268	.00136	-.13623	.11178	47.94107
10.330	-4.258	-.00050	.08938	-.11790	-.03667	-.00052	-.00263	.00199	-.11094	.09788	47.88748
10.330	-2.279	-.00396	.08148	-.08719	-.03411	-.00082	-.00224	.00204	-.08388	.08488	47.92935
10.330	-.232	-.00427	.07670	-.05736	-.03191	-.00087	-.00201	.00104	-.05705	.07693	47.97466
10.330	1.842	-.00747	.07354	-.02858	-.02689	-.00161	-.00171	.00140	-.03092	.07258	47.95887
10.330	3.789	-.00863	.06956	.00224	-.02309	-.00197	-.00158	.00149	-.00236	.06955	47.95061
10.330	5.977	-.00956	.06644	.03889	-.01902	-.00249	-.00148	.00156	.03176	.07013	47.91856
10.330	7.977	-.01360	.06485	.08108	-.01682	-.00303	-.00144	.00157	.07130	.07547	47.94240
10.330	9.999	-.01438	.06341	.12891	-.01602	-.00342	-.00139	.00187	.11594	.08483	47.85595
10.330	15.116	-.01930	.06325	.28887	-.02168	-.00414	-.00133	.00090	.26238	.13639	47.95471
10.330	20.191	-.02421	.06689	.48482	-.03066	-.00433	-.00120	-.00088	.43194	.23012	47.94028
10.330	25.276	-.03059	.07130	.70983	-.04427	-.00477	-.00123	-.00302	.61143	.36756	47.87982
10.330	30.485	-.03590	.07471	.96143	-.06443	-.00515	-.00110	-.00504	.79062	.55213	47.95297
10.330	35.602	-.03916	.07829	1.22192	-.08939	-.00547	-.00122	-.00688	.94795	.77500	47.88742
	GRADIENT	-.00098	-.00235	.01478	.00170	-.00018	.00013	-.00008	.01336	-.00341	.00771

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MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (MA-22)

(RJA333) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 93.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 333/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.367	.00549	.10000	-.18511	-.04085	-.00133	-.00417	.00783	-.16859	.12597	96.14954
10.330	-6.384	.00600	.09172	-.15808	-.03397	-.00185	-.00390	.00775	-.14691	.10873	96.08407
10.330	-4.283	-.00210	.08450	-.12671	-.03091	-.00229	-.00309	.00805	-.12004	.09373	96.16095
10.330	-2.255	-.00155	.07814	-.09704	-.02837	-.00236	-.00306	.00716	-.09389	.08190	96.01369
10.330	-.120	-.00352	.07176	-.06790	-.02310	-.00322	-.00251	.00575	-.06775	.07190	96.01615
10.330	2.027	-.00558	.06823	-.03529	-.02006	-.00341	-.00245	.00499	-.03768	.06694	95.90054
10.330	3.918	-.00827	.06520	-.00437	-.01676	-.00366	-.00231	.00453	-.00881	.06475	95.93398
10.330	6.075	-.01194	.06250	.03298	-.01264	-.00423	-.00218	.00438	.02618	.06564	95.90895
10.330	7.909	-.01558	.06076	.06907	-.00985	-.00491	-.00202	.00431	.06005	.06968	95.94453
10.330	10.033	-.02055	.05957	.12099	-.00898	-.00550	-.00175	.00440	.10876	.07974	95.91343
10.330	15.145	-.02733	.05900	.27788	-.01460	-.00640	-.00157	.00359	.25281	.12955	95.84215
10.330	20.107	-.03684	.06287	.46905	-.02256	-.00680	-.00145	.00226	.41885	.22028	95.89374
10.330	25.307	-.04398	.06772	.70120	-.03675	-.00726	-.00162	.00060	.60496	.36097	95.73805
10.330	30.424	-.05203	.07105	.95027	-.05701	-.00757	-.00166	-.00073	.78344	.54248	95.89327
10.330	35.521	-.05737	.07434	1.20890	-.08210	-.00785	-.00184	-.00226	.94074	.76286	95.82836
	GRADIENT	-.00079	-.00235	.01481	.00177	-.00018	.00011	-.00045	.01346	-.00354	-.02754

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MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (MA-22)

(RJA334) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 334/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CLL	CYN	CY	CL	CO	T/QA
10.330	-8.153	.01608	.09069	-.20287	-.02393	-.00522	-.00590	.01669	-.18795	.11855	192.14067
10.330	-6.429	.00401	.08219	-.18159	-.01900	-.00582	-.00423	.01949	-.17125	.10200	192.11759
10.330	-4.070	.00135	.07374	-.14446	-.01649	-.00608	-.00394	.01662	-.13987	.08381	192.07455
10.330	-2.277	.00165	.06849	-.11523	-.01565	-.00601	-.00431	.01350	-.11242	.07301	191.73482
10.330	-.199	.00068	.06386	-.08802	-.01240	-.00588	-.00408	.01061	-.08779	.06417	191.97658
10.330	2.096	-.00209	.05979	-.05273	-.00871	-.00593	-.00398	.00945	-.05489	.05782	191.63568
10.330	4.031	-.00594	.05692	-.02035	-.00452	-.00625	-.00372	.00886	-.02430	.05534	191.47712
10.330	5.831	-.00994	.05466	.01235	-.00203	-.00638	-.00355	.00885	.00673	.05564	191.86660
10.330	7.978	-.01569	.05278	.05761	.00021	-.00726	-.00314	.00883	.04973	.06027	191.85999
10.330	10.088	-.02548	.05084	.10285	.00235	-.00927	-.00288	.00894	.09236	.06807	191.44203
10.330	14.952	-.04011	.05109	.25070	-.00080	-.01049	-.00254	.00882	.22903	.11404	191.58086
10.330	20.285	-.05468	.05605	.45640	-.00843	-.01114	-.00228	.00805	.40866	.21081	191.69879
10.330	25.460	-.06620	.06068	.68713	-.02292	-.01145	-.00256	.00705	.59432	.35016	191.73425
10.330	30.502	-.07822	.06409	.92998	-.04265	-.01182	-.00274	.00577	.76875	.52725	191.50451
10.330	35.617	-.08625	.06737	1.19037	-.06811	-.01196	-.00305	.00441	.92845	.74800	191.62495
	GRADIENT	-.00090	-.00205	.01510	.00151	-.00001	.00004	-.00094	.01393	-.00349	-.06271

OIN49 LARC CFHT 118 (MA-22)

(RJA335) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 335/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.393	.00378	.10016	-.18355	-.04154	-.00097	-.00424	.00733	-.16697	.12588	94.62893
10.330	-6.395	.00435	.09181	-.15666	-.03455	-.00164	-.00395	.00749	-.14546	.10969	94.66190
10.330	-4.253	-.00095	.08444	-.12415	-.03151	-.00196	-.00313	.00709	-.11755	.09342	94.42784
10.330	-2.214	-.00028	.07799	-.09215	-.02922	-.00208	-.00321	.00628	-.08906	.08149	94.57516
10.330	-.218	-.00246	.07301	-.06600	-.02458	-.00261	-.00256	.00464	-.06572	.07326	94.60877
10.330	1.864	-.00512	.06931	-.03513	-.02088	-.00303	-.00254	.00456	-.03737	.06813	94.49697
10.330	4.089	-.00723	.06568	.00110	-.01759	-.00326	-.00243	.00431	-.00359	.06559	94.41335
10.330	5.820	-.01047	.06316	.02911	-.01382	-.00371	-.00242	.00454	.02255	.06579	94.42069
10.330	7.989	-.01286	.06137	.07487	-.01089	-.00437	-.00243	.00479	.06561	.07118	94.47527
10.330	9.817	-.01549	.06025	.11782	-.01019	-.00466	-.00229	.00491	.10578	.07951	94.52491
10.330	14.971	-.02381	.05952	.27534	-.01572	-.00555	-.00195	.00388	.25062	.12963	94.36166
10.330	20.372	-.03158	.06376	.48368	-.02451	-.00616	-.00179	.00225	.43123	.22815	94.40471
10.330	25.511	-.04008	.06831	.71275	-.03853	-.00667	-.00198	.00080	.61383	.36863	94.46775
10.330	30.481	-.04738	.07150	.95352	-.05799	-.00704	-.00199	-.00066	.78547	.54529	94.40201
10.330	35.608	-.05475	.07466	1.21320	-.08366	-.00738	-.00225	-.00226	.94289	.76707	94.46633
	GRADIENT	-.00084	-.00222	.01482	.00174	-.00017	.00010	-.00035	.01348	-.00331	-.00556

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MA22 - FORCE SOURCE DATA TABULATION

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OIN49 LARC CFHT 118 (MA-22)

(RJ4338) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 336/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.356	.01475	.09223	-.19944	-.02725	-.00398	-.00641	.01618	-.18392	.12024	190.14009
10.330	-6.355	.00767	.08316	-.17289	-.02172	-.00456	-.00515	.01681	-.16263	.10179	189.78441
10.330	-4.413	.00654	.07752	-.14205	-.01939	-.00460	-.00486	.01581	-.13566	.08822	189.73657
10.330	-2.062	.00471	.06963	-.10676	-.01773	-.00447	-.00466	.01303	-.10418	.07343	189.53018
10.330	-.213	.00008	.06489	-.08255	-.01348	-.00487	-.00420	.01062	-.08231	.06519	189.23641
10.330	2.082	-.00184	.06092	-.04708	-.00969	-.00513	-.00401	.00894	-.04927	.05917	189.36271
10.330	4.050	-.00305	.05797	-.01460	-.00612	-.00540	-.00387	.00861	-.01866	.05679	189.22423
10.330	5.829	-.00886	.05563	.01658	-.00335	-.00557	-.00381	.00877	.01084	.05703	189.23678
10.330	8.019	-.01155	.05371	.06164	-.00045	-.00665	-.00359	.00868	.05354	.06178	189.22794
10.330	9.866	-.02002	.05190	.10332	-.00028	-.00757	-.00332	.00862	.09290	.06883	189.18202
10.330	14.975	-.03127	.05188	.25683	-.00317	-.00883	-.00309	.00866	.23470	.11649	189.47362
10.330	20.357	-.04558	.05657	.46290	-.01067	-.00962	-.00296	.00828	.41431	.21407	189.44627
10.330	25.464	-.05610	.06144	.69216	-.02495	-.01017	-.00324	.00711	.59850	.35307	189.51414
10.330	30.536	-.06754	.06478	.93744	-.04492	-.01052	-.00333	.00593	.77451	.53209	189.54993
10.330	35.431	-.07586	.06788	1.18491	-.06911	-.01080	-.00365	.00499	.92613	.74223	189.32640
	GRADIENT	-.00122	-.00227	.01493	.00163	-.00011	.00012	-.00088	.01371	-.00367	-.05621

01N49 LARC CFHT 118 (MA-22)

(RJA337) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 337/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CO	T/OA
10.330	-8.308	.01980	.07505	-.23817	.00115	-.00980	-.00680	.03193	-.22483	.10868	380.52541
10.330	-6.312	.01348	.06568	-.20592	.00414	-.01048	-.00560	.02699	-.19745	.08792	380.26182
10.330	-4.165	.01465	.05832	-.17116	.00462	-.01067	-.00544	.02359	-.16647	.07060	379.65883
10.330	-2.040	.01417	.05358	-.13986	.00575	-.01004	-.00706	.01938	-.13787	.05852	379.31297
10.330	-.099	.01129	.04980	-.11065	.00752	-.00947	-.00658	.01685	-.11057	.04999	375.61837
10.330	2.076	.00420	.04615	-.07553	.01145	-.00943	-.00638	.01618	-.07715	.04338	376.55468
10.330	3.831	.00268	.04392	-.04477	.01406	-.00910	-.00652	.01625	-.04761	.04083	374.17873
10.330	6.056	-.00411	.04143	-.00320	.01637	-.00894	-.00634	.01652	-.00756	.04086	372.34985
10.330	8.080	-.01233	.03952	.03947	.01749	-.00970	-.00608	.01675	.03353	.04468	372.07756
10.330	10.104	-.01721	.03816	.09021	.01632	-.01036	-.00595	.01692	.08212	.05339	373.14130
10.330	15.120	-.04032	.03845	.23787	.01522	-.01313	-.00576	.01745	.21960	.09916	378.38674
10.330	20.246	-.06219	.04281	.42900	.01123	-.01464	-.00567	.01803	.38768	.18862	378.38782
10.330	25.405	-.07923	.04830	.65387	-.00003	-.01550	-.00607	.01781	.56992	.32414	377.43012
10.330	30.449	-.09488	.05194	.90038	-.01918	-.01582	-.00642	.01726	.74988	.50106	378.67182
10.330	35.644	-.10962	.05542	1.16144	-.04470	-.01609	-.00661	.01567	.91155	.72187	377.23244
GRADIENT		-.00169	-.00181	.01576	.00122	.00019	.00003	-.00090	.01483	-.00373	-.67607

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA338) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 142.500
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 338/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEL	CYN	CY	CL	CD	T/OA
10.330	-8.252	.00900	.09743	-.18704	-.03661	-.00175	-.00517	.01072	-.17112	.12327	142.60155
10.330	-6.448	.00706	.08926	-.16191	-.03091	-.00233	-.00468	.01098	-.15086	.10888	142.48285
10.330	-4.288	.00222	.08204	-.12756	-.02865	-.00257	-.00394	.00979	-.12107	.09135	142.57545
10.330	-2.233	.00121	.07574	-.09774	-.02543	-.00275	-.00385	.00887	-.09471	.07949	142.61457
10.330	-.210	-.00081	.06990	-.07234	-.02013	-.00357	-.00340	.00721	-.07208	.07016	142.26647
10.330	1.893	-.00223	.06662	-.04020	-.01638	-.00386	-.00342	.00695	-.04238	.06525	142.48935
10.330	3.869	-.00371	.06357	-.00867	-.01327	-.00407	-.00335	.00659	-.01294	.06284	142.37747
10.330	6.001	-.00723	.06094	.02995	-.00996	-.00422	-.00332	.00658	.02341	.06374	142.32760
10.330	7.869	-.01027	.05896	.06509	-.00675	-.00496	-.00338	.00707	.05641	.06731	142.31154
10.330	10.100	-.01652	.05767	.11899	-.00610	-.00556	-.00299	.00687	.10703	.07764	142.11003
10.330	15.114	-.02586	.05711	.27236	-.01132	-.00664	-.00268	.00605	.24805	.12615	142.23797
10.330	20.291	-.03466	.06133	.47328	-.01956	-.00722	-.00260	.00524	.42264	.22165	142.32285
10.330	25.469	-.04357	.06599	.70601	-.03391	-.00775	-.00289	.00379	.60902	.36317	142.30510
10.330	30.390	-.05097	.06927	.94363	-.05316	-.00810	-.00292	.00266	.77894	.53711	142.21050
10.330	35.595	-.05900	.07255	1.20544	-.07906	-.00834	-.00308	.00113	.93798	.76061	142.17523
	GRADIENT	-.00075	-.00225	.01445	.00195	-.00020	.00008	-.00041	.01314	-.00349	-.02534

MA22 - FORCE SOURCE DATA
 TABULATION

01N83 LARC CFHT 118 (MA-22)

(RJA339) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 285.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 339/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.127	.02584	.08756	-.20615	-.01873	-.00527	-.00818	.02107	-.19171	.11583	283.99703
10.330	-6.346	.01480	.07890	-.18176	-.01411	-.00571	-.00637	.02145	-.17192	.09851	283.88120
10.330	-4.200	.00945	.07193	-.14857	-.01147	-.00599	-.00580	.01904	-.14290	.08262	283.55723
10.330	-2.024	.01163	.06625	-.11445	-.01082	-.00567	-.00633	.01626	-.11207	.06927	283.40667
10.330	-.203	.02747	.06085	-.08996	-.00790	-.00578	-.00572	.01304	-.08975	.06117	282.42613
10.330	1.894	.00578	.05703	-.05847	-.00421	-.00594	-.00572	.01230	-.06033	.05506	282.88057
10.330	4.158	.00051	.05383	-.02224	.00062	-.00655	-.00546	.01169	-.02608	.05208	282.54242
10.330	6.066	-.00130	.05152	.01603	.00261	-.00594	-.00542	.01196	.01050	.05293	282.29863
10.330	7.968	-.00747	.04951	.05416	.00412	-.00658	-.00519	.01198	.04677	.05654	282.44366
10.330	10.029	-.01569	.04802	.09943	.00583	-.00822	-.00495	.01237	.08954	.06461	282.09832
10.330	14.966	-.03116	.04868	.24552	.00492	-.01046	-.00466	.01249	.22462	.11044	282.17487
10.330	20.432	-.04804	.05291	.45689	-.00277	-.01117	-.00457	.01234	.40967	.20908	282.14747
10.330	25.414	-.05969	.05736	.67737	-.01692	-.01163	-.00483	.01169	.58721	.34250	281.53936
10.330	30.458	-.07148	.06096	.92419	-.03731	-.01187	-.00497	.01068	.76576	.52102	281.24288
10.330	35.672	-.08314	.06422	1.18554	-.06256	-.01217	-.00525	.00942	.92629	.74270	282.22297
10.330	GRADIENT	-.00115	-.00215	.01496	-.00153	-.00007	.00006	-.00090	.01384	-.00363	-.12175

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA340) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.0000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 340/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.248	.03301	.06703	-.25170	.01575	-.01190	-.00934	.03878	-.23948	.10245	568.38248
10.330	-6.241	.02638	.05726	-.21772	.01822	-.01226	-.00889	.03469	-.21020	.08059	568.35994
10.330	-4.091	.02936	.05070	-.18190	.01816	-.01251	-.00990	.03055	-.17782	.06355	567.20138
10.330	-2.224	.02935	.04601	-.15610	.01924	-.01193	-.01021	.02644	-.15420	.05203	567.45774
10.330	-.148	.02196	.04211	-.12679	.02127	-.01154	-.00972	.02422	-.12668	.04244	565.99528
10.330	1.936	.01461	.03906	-.09250	.02469	-.01135	-.00950	.02350	-.09377	.03591	566.55721
10.330	4.185	.01189	.03568	-.05367	.02842	-.01091	-.00958	.02369	-.05613	.03167	565.98220
10.330	5.960	.00615	.03329	-.02117	.03081	-.01086	-.00960	.02400	-.02451	.03091	565.51952
10.330	8.146	-.00184	.03169	.02747	.03103	-.01151	-.00941	.02435	.02270	.03526	565.81237
10.330	10.235	-.00993	.03048	.07858	.03051	-.01224	-.00927	.02453	.07192	.04395	563.94711
10.330	15.236	-.03888	.03194	.22417	.02928	-.01559	-.00908	.02523	.20789	.08973	565.05711
10.330	20.439	-.06200	.04643	.41913	.02666	-.01726	-.00910	.02628	.38002	.18050	563.89423
10.330	25.590	-.08219	.04173	.64788	.01426	-.01794	-.00949	.02589	.56631	.31747	563.52003
10.330	30.607	-.10152	.04509	.89026	-.00525	-.01800	-.00986	.02561	.74327	.49209	561.79461
10.330	35.568	-.11630	.04853	1.14147	-.02977	-.01809	-.01017	.02485	.90027	.70343	562.44341
	GRADIENT	-.00240	-.00178	.01548	.00126	.00018	.00007	-.00079	.01470	-.00383	-.16146

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA341) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 341/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/QA
10.330	-8.389	-.01084	.10670	-.17522	-.05083	.00047	-.00052	-.00453	-.15778	.13112	-.04596
10.330	-6.370	-.00885	.09912	-.14533	-.04435	.00020	-.00058	-.00430	-.13344	.11463	-.09194
10.330	-4.190	-.00853	.09246	-.11269	-.04029	.00025	-.00067	-.00396	-.10563	.10045	-.04598
10.330	-2.341	-.00977	.08394	-.08369	-.03928	.00017	-.00064	-.00390	-.08019	.08729	.00000
10.330	-.261	-.00819	.07939	-.05367	-.03604	.00008	-.00057	-.00394	-.05331	.07964	-.09194
10.330	1.817	-.00886	.07531	-.02144	-.03242	.00000	-.00063	-.00334	-.02382	.07459	-.04596
10.330	3.773	-.01145	.07331	.01168	-.02959	-.00003	-.00061	-.00317	.00683	.07392	-.09190
10.330	5.786	-.00952	.06995	.04567	-.02635	.00001	-.00057	-.00352	.03839	.07420	-.04597
10.330	7.949	-.01024	.06904	.09509	-.02557	-.00026	-.00063	-.00339	.08463	.08153	-.04597
10.330	10.047	-.01061	.06534	.13900	-.02283	-.00026	-.00074	-.00374	.12547	.08859	-.09191
10.330	14.922	-.00860	.06800	.29745	-.03075	-.00070	-.00088	-.00469	.26991	.14230	.00000
10.330	20.343	-.00895	.07292	.50779	-.04038	-.00100	-.00080	-.00654	.45077	.24490	-.04596
10.330	25.297	-.01090	.07651	.72700	-.05342	-.00136	-.00070	-.00873	.62459	.37983	-.04596
10.330	30.264	-.01184	.07950	.96930	-.07271	-.00156	-.00050	-.01078	.79714	.55717	-.13790
10.330	35.412	-.01338	.08322	1.22914	-.09813	-.00198	-.00041	-.01328	.95353	.78006	-.04597
	GRADIENT	-.00024	-.00233	.01548	.00141	-.00004	.00001	.00011	.01401	-.00326	-.00694

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA342) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 3.000

RUN NO. 342/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.193	-.01122	.10610	-.17213	-.05065	.00043	-.00052	-.00466	-.15526	.12955	-.04591
10.330	-6.448	-.01085	.09953	-.14598	-.04532	.00022	-.00053	-.00449	-.13388	.11530	-.04591
10.330	-4.303	-.00882	.09282	-.111402	-.04096	.00029	-.00062	-.00401	-.10674	.10111	-.04592
10.330	-2.275	-.00927	.08376	-.08235	-.03919	.00017	-.00060	-.00411	-.07896	.08696	-.04592
10.330	-.256	-.00833	.07933	-.05275	-.03613	.00009	-.00054	-.00396	-.05239	.07956	-.09184
10.330	1.805	-.00811	.07534	-.02038	-.03338	.00004	-.00062	-.00358	-.02274	.07466	-.04592
10.330	3.754	-.01025	.07296	.01269	-.03131	-.00006	-.00059	-.00336	.00789	.07363	.00000
10.330	5.746	-.01050	.07036	.04824	-.02936	-.00013	-.00056	-.00326	.04096	.07484	-.04592
10.330	7.921	-.00904	.07022	.09776	-.02910	-.00023	-.00061	-.00348	.08715	.08302	.00000
10.330	10.024	-.00996	.06896	.14989	-.03056	-.00041	-.00069	-.00382	.13560	.09400	-.09184
10.330	14.896	-.00768	.06979	.30596	-.04033	-.00068	-.00083	-.00488	.27773	.14610	.00000
10.330	20.263	-.00965	.07538	.51834	-.05537	-.00099	-.00073	-.00679	.46016	.25023	.00000
10.330	25.121	-.01169	.08070	.74168	-.07490	-.00138	-.00060	-.00914	.63727	.38793	.00000
10.330	30.366	-.01396	.08595	1.00198	-.10133	-.00170	-.00038	-.01127	.81107	.58068	-.09184
10.330	35.505	-.01449	.09245	1.26799	-.13289	-.00201	-.00022	-.01383	.91553	.81169	.00000
	GRADIENT	-.00008	-.00239	.01562	.00124	-.00004	.00000	.00009	.01413	-.00334	.00452

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA343) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 142.500
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 3.000

RUN NO. 343/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.378	.00725	.09792	-.18503	-.03941	-.00139	-.00474	.00927	-.16879	.12383	142.66798
10.330	-6.390	.00250	.08883	-.15766	-.03257	-.00210	-.00429	.00956	-.14680	.10582	142.32564
10.330	-4.418	.00147	.08233	-.12678	-.03044	-.00235	-.00355	.00848	-.12006	.09185	142.45090
10.330	-2.088	-.00074	.07551	-.09343	-.02675	-.00250	-.00346	.00742	-.09061	.07887	142.40900
10.330	-.255	-.00491	.07059	-.07005	-.02236	-.00319	-.00305	.00608	-.06973	.07090	142.22215
10.330	2.066	-.00579	.06620	-.03320	-.01890	-.00347	-.00293	.00552	-.03557	.06496	142.00828
10.330	4.032	-.00706	.05354	-.00178	-.01585	-.00378	-.00290	.00546	-.00625	.06326	141.91010
10.330	5.811	-.00982	.06113	.02767	-.01289	-.00426	-.00295	.00586	.02134	.06362	141.95592
10.330	7.984	-.01118	.05943	.07439	-.01098	-.00497	-.00300	.00613	.06542	.06919	142.17164
10.330	9.858	-.01424	.05849	.11898	-.01190	-.00526	-.00295	.00633	.10721	.07799	142.20108
10.330	14.976	-.02609	.05826	.27987	-.02147	-.00646	-.00237	.00520	.25531	.12860	142.16346
10.330	20.382	-.03605	.06355	.49362	-.03607	-.00719	-.00231	.00428	.44059	.23149	141.88636
10.330	25.322	-.04416	.06936	.71726	-.05507	-.00769	-.00255	.00306	.61869	.36947	142.12699
10.330	30.325	-.05285	.07486	.96805	-.08076	-.00808	-.00256	.00172	.79779	.55340	142.00425
10.330	35.545	-.05947	.08043	1.23487	-.11210	-.00835	-.00279	-.00008	.95800	.78333	141.89802
	GRADIENT	-.00105	-.00223	.01474	.00176	-.00018	.00009	-.00038	.01343	-.00339	-.07020

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(RJA344) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 3.000

RUN NO. 344/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.207	-.00994	.10436	-.17046	-.05040	.00038	-.00049	-.00404	-.15381	.12763	.00000
10.330	-6.425	-.00954	.09780	-.14502	-.04488	.00017	-.00049	-.00395	-.13317	.11342	.00000
10.330	-4.331	-.00870	.09118	-.11219	-.04082	.00026	-.00057	-.00366	-.10498	.09939	.00000
10.330	-2.253	-.00872	.08210	-.08131	-.03886	.00014	-.00053	-.00364	-.07802	.08524	.00000
10.330	-.072	-.01272	-.00039	-.00041	.00001	.00000	.00003	-.00026	-.00041	-.00038	.00000
10.330	1.857	-.00893	.07388	-.01916	-.03315	.00002	-.00055	-.00299	-.02155	.07322	.00000
10.330	3.804	-.00850	.07155	.01271	-.03099	-.00007	-.00053	-.00290	.00793	.07224	.00000
10.330	5.774	-.01101	.06916	.04827	-.02915	-.00017	-.00052	-.00299	.04106	.07367	.00000
10.330	7.910	-.00911	.06894	.09692	-.02891	-.00027	-.00052	-.00331	.08652	.08162	.00000
10.330	9.962	-.00878	.06826	.14773	-.03023	-.00038	-.00059	-.00359	.13369	.09279	.00000
10.330	14.989	-.00805	.06873	.30445	-.04014	-.00071	-.00070	-.00466	.27632	.14514	.00000
10.330	20.092	-.00948	.07393	.50505	-.05443	-.00100	-.00061	-.00640	.44892	.24293	.00000
10.330	25.318	-.01023	.07948	.73755	-.07445	-.00134	-.00046	-.00883	.63272	.38726	.00000
10.330	30.378	-.01330	.08480	.98578	-.09978	-.00174	-.00019	-.01087	.80756	.57168	.00000
10.330	35.406	-.01587	.09129	1.24650	-.13071	-.00211	-.00005	-.01330	.96309	.79658	.00000
	GRADIENT	-.00000	-.00258	.01545	.00135	-.00004	.00000	.00012	.01399	-.00352	.00000

01N83 LARC CFHT 118 (MA-22)

(RJA345) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 285.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 3.000

RUN NO. 345/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CEL	CYN	CY	CL	CD	T/OA
10.330	-8.268	.02162	.08590	-.20131	-.02171	-.00481	-.00729	.02069	-.18688	.11395	283.99385
10.330	-6.276	.01107	.07661	-.17348	-.01674	-.00519	-.00567	.02088	-.16407	.09511	284.20224
10.330	-4.062	.00729	.06971	-.14136	-.01447	-.00539	-.00518	.01869	-.13607	.07955	284.40683
10.330	-2.320	.00852	.06434	-.11383	-.01371	-.00504	-.00569	.01649	-.11113	.06889	284.21730
10.330	-.162	.00585	.05933	-.08295	-.00945	-.00522	-.00521	.01379	-.08278	.05956	283.91459
10.330	2.085	.00349	.05535	-.05190	-.00582	-.00557	-.00512	.01235	-.05388	.05343	283.99841
10.330	3.997	.00057	.05297	-.01943	-.00239	-.00597	-.00480	.01177	-.02308	.05149	283.89888
10.330	5.998	-.00346	.05060	.01775	-.00053	-.00579	-.00475	.01185	.01236	.05218	283.86174
10.330	8.014	-.00849	.04902	.06053	-.00019	-.00634	-.00462	.01204	.05312	.05698	283.55382
10.330	10.041	-.01489	.04739	.10834	-.00097	-.00743	-.00427	.01191	.09842	.06556	283.41003
10.330	15.271	-.03444	.04851	.26401	-.00654	-.01023	-.00403	.01191	.24191	.11634	283.17701
10.330	20.413	-.04780	.05365	.46638	-.01938	-.01099	-.00400	.01185	.41839	.21294	283.32306
10.330	25.355	-.06028	.05928	.68537	-.03784	-.01142	-.00417	.01101	.59396	.34707	284.00034
10.330	30.395	-.07062	.06476	.93268	-.06329	-.01175	-.00433	.01002	.77173	.52775	284.13250
10.330	35.433	-.08268	.07086	1.18995	-.09354	-.01209	-.00466	.00853	.92848	.74761	283.89767
	GRADIENT	-.00091	-.00206	.01489	.00157	-.00008	.00007	-.00087	.01379	-.00347	-.05940

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 271

01N83 LARC CFHT 118 (MA-22)

(RJA348) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 570.000
 ELEVON = 10.000 80FLAP = 13.750
 NO.JET = 3.000

RUN NO. 348/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CL	CYN	CY	CL	CD	T/OA
10.330	-8.091	.02788	.06452	-.24049	.01126	-.01097	-.00857	.03863	-.22902	.09772	570.32647
10.330	-6.317	.02213	.05588	-.21220	.01389	-.01154	-.00780	.03435	-.20476	.07889	569.78902
10.330	-4.223	.02518	.04895	-.17586	.01355	-.01171	-.00866	.03035	-.17178	.06177	568.72971
10.330	-2.189	.02316	.04436	-.14739	.01493	-.01095	-.00915	.02594	-.14559	.04995	568.97509
10.330	-.041	.01773	.04026	-.11648	.01709	-.01066	-.00858	.02319	-.11645	.04035	568.40378
10.330	1.928	.01299	.03725	-.08704	.02030	-.01058	-.00840	.02268	-.08825	.03430	567.47088
10.330	3.880	.00651	.03464	-.05164	.02273	-.01017	-.00847	.02276	-.05387	.03107	568.62983
10.330	6.055	.00306	.03212	-.01028	.02455	-.01000	-.00846	.02321	-.01361	.03085	568.63779
10.330	8.071	-.00548	.03060	.03474	.02432	-.01072	-.00824	.02350	.03010	.03517	567.41647
10.330	10.061	-.01085	.02956	.08491	.02223	-.01142	-.00810	.02348	.07844	.04394	567.81708
10.330	15.299	-.04043	.03139	.23994	.01646	-.01496	-.00776	.02383	.22316	.09359	566.22503
10.330	20.453	-.06165	.03676	.43556	.00668	-.01653	-.00795	.02487	.39526	.18664	567.40143
10.330	25.409	-.07999	.04267	.65471	-.01011	-.01721	-.00852	.02494	.57307	.31946	565.93617
10.330	30.464	-.09842	.04828	.90194	-.03419	-.01742	-.00876	.02457	.75295	.49889	567.23380
10.330	35.643	-.11518	.05464	1.16582	-.06601	-.01775	-.00893	.02281	.91558	.72377	565.94589
	GRADIENT	-.00233	-.00176	.01518	.00117	.00017	.00006	-.00091	.01441	-.00380	-.08520

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OF POOR QUALITY

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 272

01N49 LARC CFHT 118 (MA-22)

(RJA347) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 347/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.226	.00298	.09834	-.17915	-.04229	-.00098	-.00389	.00753	-.16323	.12298	95.43082
10.330	-6.416	.00342	.09033	-.15454	-.03563	-.00158	-.00356	.00746	-.14348	.10704	95.27412
10.330	-4.300	-.00139	.08298	-.12217	-.03263	-.00193	-.00273	.00719	-.11560	.09190	95.50794
10.330	-2.285	-.00261	.07703	-.09181	-.02956	-.00203	-.00280	.00646	-.08866	.08063	95.32569
10.330	-.220	-.00523	.07190	-.06468	-.02586	-.00255	-.00217	.00472	-.06440	.07215	95.40028
10.330	1.861	-.00904	.06809	-.03255	-.02253	-.00289	-.00215	.00464	-.03474	.06700	95.34609
10.330	4.080	-.00822	.06472	.00235	-.01917	-.00323	-.00203	.00440	-.00226	.06472	95.38460
10.330	5.789	-.01078	.06266	.03163	-.01648	-.00373	-.00203	.00461	.02515	.06553	95.26168
10.330	7.988	-.01301	.06083	.07883	-.01440	-.00440	-.00210	.00495	.06961	.07119	95.45840
10.330	10.099	-.01538	.05991	.12838	-.01566	-.00458	-.00198	.00484	.11589	.08149	95.38966
10.330	15.250	-.02560	.05979	.29232	-.02614	-.00542	-.00161	.00396	.26630	.13458	95.42394
10.330	20.348	-.03153	.06469	.49412	-.03980	-.00597	-.00156	.00246	.44080	.23247	95.25598
10.330	25.271	-.03877	.07026	.71425	-.05865	-.00642	-.00168	.00068	.61589	.36845	95.30331
10.330	30.421	-.04666	.07585	.96987	-.08496	-.00701	-.00147	-.00108	.79794	.55650	95.36652
10.330	35.474	-.05526	.08182	1.22576	-.11482	-.00738	-.00158	-.00272	.95075	.77798	95.27333
10.330	GRADIENT	-.00096	-.00217	.01475	.00162	-.00017	.00010	-.00035	.01343	-.00324	-.01066

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 273

01N49 LARC CFHT 118 (MA-22)

(RJA348) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 348/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.310	.01363	.09033	-.19485	-.02893	-.00390	-.00576	.01595	-.17975	.11755	189.96581
10.330	-6.325	.00540	.08131	-.16763	-.02333	-.00447	-.00461	.01858	-.15765	.09929	189.78612
10.330	-4.110	.00345	.07494	-.13502	-.02050	-.00454	-.00416	.01510	-.12930	.08442	189.70818
10.330	-2.333	.00182	.06904	-.10698	-.01966	-.00431	-.00424	.01335	-.10408	.07334	189.35430
10.330	-.163	.00001	.06337	-.07641	-.01484	-.00477	-.00376	.01073	-.07623	.06359	189.73369
10.330	2.043	-.00311	.05938	-.04373	-.01198	-.00487	-.00357	.00930	-.04582	.05778	189.60146
10.330	3.950	-.00612	.05682	-.01054	-.00912	-.00501	-.00333	.00862	-.01443	.05596	189.30089
10.330	5.921	-.00960	.05452	.02429	-.00669	-.00515	-.00325	.00871	.01854	.05674	189.60363
10.330	7.974	-.01429	.05303	.06592	-.00525	-.00611	-.00313	.00873	.05793	.01166	189.39358
10.330	10.002	-.02130	.05146	.11395	-.00606	-.00740	-.00272	.00858	.10328	.07047	189.29872
10.330	15.155	-.03315	.05163	.27358	-.01540	-.00832	-.00245	.00840	.25057	.12136	189.40745
10.330	20.220	-.04615	.05704	.47246	-.02652	-.00934	-.00242	.00801	.42363	.21681	189.10738
10.330	25.299	-.05586	.06290	.70018	-.04593	-.00981	-.00269	.00685	.60615	.35608	189.06621
10.330	30.323	-.06661	.06860	.94763	-.07137	-.01024	-.00279	.00561	.78335	.53765	189.42338
10.330	35.509	-.07754	.07466	1.21180	-.10249	-.01071	-.00299	.00402	.94307	.76463	189.16903
	GRADIENT	-.00118	-.00223	.01522	.00149	-.00007	.00011	-.00083	.01404	-.00352	-.02636

01N49 LARC CFHT 118 (MA-22)

(RJA349) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 349/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.275	.01765	.07290	-.23015	-.00201	-.00940	-.00632	.03195	-.21726	.10527	378.31601
10.330	-6.327	.01016	.06380	-.19944	.00201	-.01021	-.00488	.02744	-.19120	.08539	380.23789
10.330	-4.181	.00853	.05623	-.16520	.00251	-.01027	-.00550	.02374	-.16066	.06813	378.18124
10.330	-2.181	.01041	.05176	-.13312	.00341	-.00961	-.00615	.01959	-.13106	.05679	378.16563
10.330	-.162	.00387	.04750	-.10457	.00489	-.00900	-.00573	.01666	-.10443	.04779	378.32013
10.330	1.956	-.00010	.04421	-.07113	.00828	-.00900	-.00551	.01614	-.07259	.04175	378.10186
10.330	4.157	-.00191	.04154	-.03333	.01143	-.00866	-.00562	.01619	-.03626	.03901	376.75245
10.330	5.879	-.00759	.03947	.00002	.01297	-.00858	-.00536	.01594	-.00403	.03926	378.09991
10.330	8.063	-.01646	.03757	.04850	.01297	-.00939	-.00502	.01617	.04275	.04400	378.34571
10.330	10.134	-.01988	.03668	.10008	.01061	-.01010	-.00482	.01625	.09206	.05372	377.41500
10.330	15.119	-.04178	.03753	.25139	.00226	-.01214	-.00450	.01640	.23290	.10181	377.34036
10.330	20.228	-.06249	.04257	.44663	-.00743	-.01398	-.00464	.01751	.40436	.19436	378.35445
10.330	25.335	-.08062	.04877	.67332	-.02478	-.01499	-.00490	.01668	.58770	.33220	378.77748
10.330	30.393	-.09420	.05489	.92098	-.04906	-.01534	-.00520	.01584	.76664	.51330	376.52260
10.330	35.535	-.11150	.06104	1.18177	-.07941	-.01582	-.00544	.01439	.92621	.73651	377.20950
	GRADIENT	-.00151	-.00177	.01564	.00110	.00018	.00002	-.00088	.01476	-.00350	-.14298

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(RJA350) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 350/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.370	-.01270	.09673	-.18268	-.04069	.00200	.00041	-.00917	-.16668	.12229	94.85199
10.330	-6.403	-.01839	.08572	-.16157	-.03330	.00055	.00008	.00222	-.15100	.10321	94.77208
10.330	-4.269	-.01718	.07844	-.12733	-.03302	.00127	-.00005	.00179	-.12114	.08770	94.67949
10.330	-2.255	-.00929	.07290	-.09938	-.03173	.00201	-.00114	-.00006	-.09543	.07676	94.75468
10.330	-.237	-.00598	.06839	-.07414	-.02811	.00198	-.00164	-.00054	-.07385	.06869	94.57473
10.330	1.821	-.00213	.06469	-.04497	-.02151	.00190	-.00213	.00077	-.04701	.06323	94.71133
10.330	3.964	.00003	.06165	-.01070	-.01691	.00222	-.00218	.00057	-.01493	.06077	94.84819
10.330	5.933	-.00029	.05946	.02429	-.01323	.00288	-.00205	-.00007	.01802	.06165	94.61420
10.330	7.930	-.00157	.05800	.06352	-.00963	.00138	-.00171	-.00007	.05492	.06621	94.73487
10.330	9.991	-.00226	.05601	.10991	-.01232	.00164	-.00153	-.00050	.09853	.07423	94.68696
10.330	15.169	-.00251	.05626	.27027	-.01971	.00083	-.00076	-.00422	.24613	.12502	94.67071
10.330	20.301	-.00702	.06076	.47170	-.03240	-.00014	-.00020	-.00673	.42133	.22064	94.74246
10.330	25.436	-.00917	.06715	.70533	-.05279	-.00063	.00000	-.00900	.60812	.36359	94.59437
10.330	30.431	-.01078	.07305	.95008	-.07781	-.00103	.00027	-.01126	.78220	.54420	94.73792
10.330	35.572	-.01515	.07912	1.21287	-.10791	-.00179	.00041	-.01464	.94050	.76992	94.67947
	GRADIENT	.00202	-.00203	.01401	.00208	.00009	-.00025	-.00008	.01276	-.00327	.01458

01N95N50 LARC CFHT 118 (MA-22)

(RJ3551) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 351/ 0		RN/L = .99		GRADIENT INTERVAL = -5.00/ 5.00							
MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.260	-.02446	.08350	-.21072	-.02344	.00276	.00064	.00172	-.19653	.11291	190.29557
10.330	-6.277	-.02249	.07509	-.17774	-.02154	.00243	.00048	.00047	-.16847	.09407	190.03988
10.330	-4.122	-.01397	.06782	-.14467	-.02083	.00290	-.00054	-.00033	-.13942	.07804	189.91096
10.330	-2.246	-.00827	.06257	-.12283	-.01914	.00327	-.00119	-.00114	-.12028	.06734	189.84006
10.330	-.227	-.00858	.05781	-.09654	-.01523	.00310	-.00082	-.00158	-.09631	.05819	189.80697
10.330	1.863	-.00546	.05460	-.07230	-.01056	.00318	-.00104	-.00229	-.07404	.05222	189.61028
10.330	4.086	-.00356	.05182	-.04028	-.00690	.00341	-.00126	-.00153	-.04387	.04882	189.83306
10.330	5.786	.00093	.04999	-.00782	-.00596	.00404	-.00175	-.00206	-.01282	.04895	189.12887
10.330	8.041	.00506	.04722	.04020	.00125	.00310	-.00268	.00218	.03320	.05237	189.72993
10.330	10.085	.00161	.04672	.09062	-.00157	.00276	-.00170	-.00030	.08104	.06187	189.93330
10.330	15.334	-.00465	.04740	.24751	-.00390	.00131	-.00033	-.00455	.22617	.11116	189.56120
10.330	20.202	-.00939	.05110	.43911	-.01434	.00006	.00033	-.00687	.39445	.19959	189.43187
10.330	25.371	-.00900	.05734	.67027	-.03429	-.00050	.00040	-.00871	.58106	.33900	189.63951
10.330	30.435	-.01997	.06375	.92216	-.05945	-.00200	.00110	-.01300	.76281	.52209	189.62947
10.330	35.596	-.02060	.07030	1.18671	-.09052	-.00244	.00090	-.01529	.92404	.74791	189.52502
	GRADIENT	.00114	-.00194	.01265	.00178	.00005	-.00006	-.00017	.01158	-.00356	-.01819

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(RJA352) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 352/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/QA
10.330	-8.272	-.02773	.07665	-.22632	-.01466	.00339	.00127	.00076	-.21294	.10841	255.16895
10.330	-6.274	-.02177	.06794	-.19150	-.01182	.00322	.00035	.00068	-.18293	.08846	254.81282
10.330	-4.084	-.01459	.06086	-.16204	-.01022	.00387	-.00083	-.00098	-.15730	.07224	254.47964
10.330	-2.251	-.01140	.05612	-.13849	-.00787	.00394	-.00116	.00007	-.13617	.06152	254.61656
10.330	-.221	-.01243	.05103	-.11292	-.00537	.00377	-.00028	-.00115	-.11272	.05147	254.49633
10.330	1.887	-.00989	.04768	-.08621	-.00229	.00383	-.00052	-.00125	-.08773	.04482	254.54570
10.330	4.115	-.00290	.04080	-.05568	-.00006	.00431	-.00110	-.00170	-.05884	.04189	254.59440
10.330	6.013	.00102	.03964	-.02114	.00126	.00477	-.00119	-.00400	-.02570	.04218	254.11108
10.330	8.082	-.00136	.04225	.02997	.00628	.00397	-.00110	-.00191	.02374	.04604	254.31259
10.330	9.918	-.00024	.04127	.07303	.00585	.00351	-.00054	-.00339	.06483	.05323	254.62604
10.330	15.156	-.00510	.04172	.22902	.00267	.00182	.00014	-.00509	.21015	.10015	253.83448
10.330	20.324	-.01224	.04545	.42519	-.00392	-.00019	.00109	-.00810	.38294	.19030	253.83616
10.330	25.456	-.01497	.05166	.65665	-.02278	-.00091	.00113	-.00997	.57070	.32888	254.28480
10.330	30.474	-.02271	.05820	.90509	-.04799	-.00217	.00160	-.01391	.75055	.50918	254.35032
10.330	35.430	-.02222	.06431	1.16159	-.07775	-.00247	.00133	-.01588	.90922	.72578	254.08412
	GRADIENT	.00122	-.00184	.01291	.00126	.00004	.00000	-.00014	.01196	-.00374	.00763

01N79 LARC CFHT 118 (MA-22)

(RJA353) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 1.000

RUN NO. 353/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/OA
10.330	-8.314	-.00157	.10192	-.17383	-.04795	.00021	-.00247	.00107	-.15726	.12598	48.08585
10.330	-6.315	-.00339	.09500	-.14372	-.04176	-.00011	-.00254	.00154	-.13240	.11023	48.04007
10.330	-4.177	-.00393	.08832	-.11323	-.03732	-.00052	-.00247	.00217	-.10650	.09633	48.03380
10.330	-2.325	-.00461	.08144	-.08708	-.03457	-.00077	-.00217	.00242	-.08370	.08491	47.96674
10.330	-.125	-.00248	.07602	-.05259	-.03240	-.00085	-.00190	.00153	-.05243	.07614	48.07470
10.330	2.044	-.00727	.07258	-.02268	-.02769	-.00167	-.00157	.00164	-.02523	.07173	48.08458
10.330	3.741	-.01026	.06962	.00516	-.02494	-.00200	-.00154	.00177	.00061	.06981	48.08556
10.330	5.949	-.01026	.06632	.04270	-.02112	-.00251	-.00139	.00182	.03560	.07039	48.03501
10.330	8.012	-.01301	.06463	.08526	-.02006	-.00308	-.00141	.00205	.07542	.07588	48.10359
10.330	10.056	-.01658	.06349	.13504	-.02063	-.00344	-.00138	.00221	.12188	.08610	48.08536
10.330	15.044	-.02219	.06362	.29254	-.03084	-.00410	-.00126	.00137	.26600	.13737	48.00689
10.330	20.187	-.02604	.06847	.49451	-.04515	-.00430	-.00110	-.00047	.44051	.23491	48.07333
10.330	25.301	-.03024	.07436	.72731	-.06476	-.00459	-.00103	-.00280	.62575	.37806	48.04508
10.330	30.426	-.03574	.08014	.97967	-.09070	-.00508	-.00076	-.00527	.80417	.56523	48.06443
10.330	35.411	-.03687	.08225	1.23497	-.12079	-.00536	-.00138	-.00711	.95886	.78262	48.14943
	GRADIENT	-.00075	-.00229	.01490	.00156	-.00019	.00012	-.00008	.01349	-.00328	.01127

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MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (MA-22)

(RJA354) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 1.000

RUN NO. 354/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.343	.00307	.09893	-.18201	-.04184	-.00124	-.00383	.00760	-.16573	.12429	95.71855
10.330	-6.294	.00073	.09038	-.15337	-.03499	-.00177	-.00347	.00742	-.14254	.10665	95.75733
10.330	-4.136	-.00276	.08304	-.12094	-.03169	-.00219	-.00274	.00772	-.11463	.09154	95.74464
10.330	-2.306	-.00497	.07760	-.09489	-.02903	-.00223	-.00274	.00695	-.09170	.08135	95.84227
10.330	-.228	-.00505	.07168	-.06783	-.02430	-.00311	-.00220	.00561	-.06754	.07195	95.72700
10.330	1.823	-.00825	.06818	-.03493	-.02150	-.00332	-.00212	.00483	-.03708	.06703	95.77338
10.330	4.071	-.00993	.06473	.00066	-.01856	-.00361	-.00199	.00434	-.00393	.06461	95.83456
10.330	5.775	-.01207	.06250	.03106	-.01624	-.00402	-.00193	.00428	.02461	.06531	95.83522
10.330	7.958	-.01501	.06087	.07630	-.01412	-.00491	-.00183	.00452	.06713	.07085	95.87229
10.330	10.022	-.02004	.06005	.12508	-.01444	-.00550	-.00165	.00460	.11272	.08090	95.80711
10.330	15.109	-.02884	.06002	.28547	-.02453	-.00628	-.00134	.00374	.25996	.13235	95.78465
10.330	20.298	-.03696	.06471	.48928	-.03851	-.00669	-.00130	.00245	.43645	.23043	95.87000
10.330	25.367	-.04284	.07067	.72105	-.05815	-.00706	-.00141	.00046	.62125	.37276	95.78392
10.330	30.425	-.05017	.07613	.96854	-.08362	-.00745	-.00125	-.00140	.79661	.55613	95.68397
10.330	35.359	-.06006	.08218	1.22130	-.11278	-.00783	-.00133	-.00309	.94847	.77378	95.78201
	GRADIENT	-.00086	-.00223	.01477	.00164	-.00019	.00010	-.00043	.01346	-.00329	.00540

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OF POOR QUALITY

OIN79 LARC CFHT 118 (MA-22)

(RJA355) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 1.000

RUN NO. 355/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.271	.01178	.08985	-.19947	-.02610	-.00499	-.00541	.01604	-.18447	.11781	191.83255
10.330	-8.303	.00192	.08069	-.17489	-.02044	-.00559	-.00373	.01871	-.16499	.09941	191.56868
10.330	-4.143	-.00112	.07288	-.14058	-.01848	-.00584	-.00342	.01586	-.13494	.08285	191.62562
10.330	-2.280	.00067	.06777	-.11177	-.01728	-.00574	-.00386	.01290	-.10899	.07216	191.94044
10.330	-.211	-.00208	.06324	-.08344	-.01448	-.00562	-.00362	.01010	-.08320	.06355	191.89938
10.330	1.834	-.00288	.05969	-.05077	-.01176	-.00552	-.00359	.00910	-.05265	.05803	191.60612
10.330	3.966	-.00625	.05662	-.01527	-.00755	-.00592	-.00334	.00858	-.01915	.05543	191.80233
10.330	5.967	-.01306	.05420	.02042	-.00551	-.00608	-.00317	.00865	.01468	.05603	191.74260
10.330	7.959	-.01706	.05257	.06394	-.00509	-.00677	-.00279	.00846	.05605	.06092	191.49914
10.330	10.024	-.02705	.05106	.11009	-.00460	-.00880	-.00244	.00859	.09952	.06945	191.72543
10.330	15.167	-.04196	.05194	.26859	-.01195	-.01024	-.00222	.00869	.24565	.12040	191.35217
10.330	20.313	-.05525	.05721	.47143	-.02482	-.01087	-.00205	.00798	.42225	.21731	191.55236
10.330	25.414	-.06715	.06343	.70305	-.04465	-.01116	-.00231	.00667	.60779	.35901	191.28622
10.330	30.473	-.07741	.06901	.95118	-.07006	-.01152	-.00241	.00521	.78479	.54185	191.69974
10.330	35.379	-.08760	.07480	1.20355	-.09943	-.01187	-.00251	.00318	.93800	.75782	191.68242
	GRADIENT	-.00069	-.00199	.01533	.00135	.00000	.00002	-.00090	.01417	-.00337	.00034

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(RJA356) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 93.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 356/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.393	-.00945	.10014	-.17832	-.04615	-.00013	-.00051	-.00411	-.16179	.12510	95.27713
10.330	-6.391	-.01119	.09322	-.14911	-.04007	-.00078	-.00001	-.00433	-.13781	.10923	95.12462
10.330	-4.409	-.01182	.08679	-.12156	-.03562	-.00124	.00002	-.00342	-.11452	.09587	95.05293
10.330	-2.300	-.01826	.07791	-.09260	-.03504	-.00277	.00219	-.01028	-.08940	.08156	95.07529
10.330	-.270	-.02296	.07315	-.06325	-.03357	-.00330	.00299	-.00950	-.06291	.07345	95.17820
10.330	1.814	-.03193	.06927	-.03552	-.03021	-.00459	.00425	-.01089	-.03769	.06811	94.99622
10.330	3.772	-.03612	.06719	-.00456	-.02615	-.00541	.00462	-.01124	-.00897	.06674	94.97513
10.330	5.984	-.03732	.06495	.03285	-.02213	-.00579	.00425	-.01068	.02592	.06801	95.00815
10.330	7.990	-.03712	.06265	.07492	-.02019	-.00605	.00340	-.00833	.06548	.07245	95.11159
10.330	9.995	-.03719	.06164	.12548	-.02169	-.00613	.00250	-.00588	.11288	.08248	94.88482
10.330	14.894	-.02888	.06287	.28401	-.03132	-.00486	.00001	-.00168	.25831	.13376	94.97498
10.330	20.340	-.03502	.06798	.49641	-.04550	-.00524	.00051	-.00424	.44183	.23629	94.94253
10.330	25.480	-.04164	.07410	.73157	-.06520	-.00583	.00105	-.00718	.62854	.38161	95.00742
10.330	30.465	-.04320	.07966	.98029	-.09028	-.00562	.00076	-.00608	.80456	.56567	94.92953
10.330	35.475	-.04527	.08540	1.23470	-.12095	-.00572	.00008	-.01001	.95594	.78610	94.80038
	GRADIENT	-.00304	-.00234	.01421	.00116	-.00050	.00055	-.00080	.01283	-.00351	-.01136

01N79N78 LARC CFHT 118 (MA-22)

(RJA357) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	190.000
ELEVON	=	10.000	BDFLAP	=	13.750
NO. JET	=	2.000			

RUN NO. 357/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

	ALPHA	BETA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	-8.359	-.01250	.09355	-.18764	-.03935	-.00287	.00090	-.00252	-.17205	.11984	189.51569
10.330	-6.356	-.02181	.08568	-.15912	-.03279	-.00425	.00309	-.00651	-.14865	.10277	189.70244
10.330	-4.174	-.02982	.07854	-.12738	-.02919	-.00541	.00485	-.00779	-.12132	.08760	189.53210
10.330	-2.289	-.04378	.07177	-.10704	-.03133	-.00838	.00828	-.01933	-.10408	.07599	189.33640
10.330	-.249	-.04939	.06745	-.08403	-.02814	-.00911	.00902	-.02030	-.08374	.06782	189.43031
10.330	1.839	-.04964	.06473	-.05629	-.02317	-.00901	.00781	-.01679	-.05834	.06289	189.32182
10.330	4.074	-.04845	.06140	-.01929	-.01817	-.00857	.00645	-.01313	-.02360	.05988	189.34517
10.330	5.744	-.04404	.05923	.01204	-.01572	-.00801	.00495	-.01007	.00605	.06014	189.25883
10.330	7.982	-.04008	.05702	.06083	-.01453	-.00763	.00299	-.00498	.05233	.06492	189.17649
10.330	10.020	-.03743	.05592	.11059	-.01556	-.00751	.00170	-.00221	.09917	.07431	189.29840
10.330	14.918	-.04061	.05744	.26953	-.02586	-.00753	.00049	-.00003	.24469	.12463	189.50550
10.330	20.357	-.04980	.06302	.48345	-.04030	-.00787	.00076	-.00211	.43133	.22727	189.38578
10.330	25.300	-.05696	.06895	.70835	-.05835	-.00811	.00087	-.00440	.61094	.36505	189.31523
10.330	30.375	-.06195	.07447	.96025	-.08322	-.00822	.00081	-.00635	.79078	.54980	189.42345
10.330	35.540	-.07148	.08025	1.22549	-.11460	-.00861	.00074	-.00875	.95055	.77764	189.09496
	GRADIENT	-.00204	-.00199	.01298	-.00148	-.00033	.00014	-.00035	.01173	-.00329	-.01856

01N49 LARC CFHT 118 (MA-22)

(RJA403) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 403/ 0 RN/L = 1.05 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

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(RJA411) (12 JAN 78)

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	2.000			

[illegible]

(RJAG007) (12 JAN 76)

PARAMETRIC DATA

ALPHA	=	.000	T/QA	=	190.000
ELEVON	=	.000	BOFLAP	=	.000
NO. JET	=	2.000			

[illegible]

01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(RJA008) (12 JAN 78)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.   XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES   YMRP = .0000 IN. YO
BREF = 936.6800 INCHES   ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

ALPHA	=	-10.000	T/QA	=	190.000
ELEVON	=	.000	SOFLAP	=	.000
NOJET	=	2.000			

[illegible]

01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(RJAO09) (12 JAN 76)

REFERENCE DATA

```

SREF = 2690.0000 SQ.FT.  XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES  YMRP = .0000 IN. YO
BREF = 936.6800 INCHES  ZMRP = 375.0000 IN. ZO
SCALE = .0100

```

PARAMETRIC DATA

ALPHA	=	20.000	T/QA	=	190.000
ELEVON	=	.000	BDCLAP	=	.000
NO.JET	=	2.000			

[illegible]

PAGE 284

(RJAD10) (12 JAN 76)

PARAMETRIC DATA

ALPHA	=	35.000	T/OA	=	190.000
ELEVON	=	.000	BDCLAP	=	.000
NOJET	=	2.000			

[illegible]

(RJA407) (12 JAN 76)

PARAMETRIC DATA

ALPHA	=	.000	T/GA	=	.000
ELEVON	=	.000	BDFLAP	=	.000
NOJET	=	2.000			

[illegible]

MA22 - FORCE SOURCE DATA TABULATION

(RJA408) (12 JAN 78)

01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

PARAMETRIC DATA

ALPHA	=	-10.000	Y/QA	=	.000
ELEVON	=	.000	BDFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 408/ 0 RN/L = 1.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	TEMP	ALPHA	CAU	CN	CLM	CBL	CYN	CY	CL	CO	T/QA
10.330	326.000	-10.36000	.10540	-.19570	-.04924	.00050	-.00035	-.00290	-.17360	.13890	.00000
10.330	362.000	-10.34000	.10560	-.19550	-.04896	.00053	-.00033	-.00340	-.17330	.13900	.00000
10.330	388.000	-10.34000	.10580	-.19550	-.04864	.00056	-.00033	-.00350	-.17340	.13920	.00000
10.330	408.000	-10.34000	.10540	-.19650	-.04856	.00055	-.00037	-.00340	-.17430	.13900	.00000
10.330	425.000	-10.34000	.10590	-.19630	-.04822	.00057	-.00037	-.00360	-.17410	.13940	.00000
10.330	443.000	-10.34000	.10570	-.19780	-.04835	.00059	-.00042	-.00340	-.17560	.13950	.00000
10.330	459.000	-10.34000	.10590	-.19810	-.04827	.00060	-.00045	-.00350	-.17590	.13980	.00000
10.330	472.000	-10.34000	.10620	-.19790	-.04810	.00058	-.00039	-.00340	-.17560	.14000	-.06332
10.330	488.000	-10.33000	.10670	-.19840	-.04844	.00064	-.00047	-.00360	-.17600	.14050	.00000
10.330	501.000	-10.34000	.10690	-.19910	-.04839	.00060	-.00036	-.00340	-.17580	.14070	.00000
	GRADIENT	.00000	.00000	.00000	-.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(RJA409) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

ALPHA	=	20.000	T/QA	=	.000
ELEVON	=	.000	SDFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 409/ 0 RN/L = 1.05 GRADIENT INTERVAL = -5.00/ 5.00

[illegible]

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

PAGE 287

01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(RJA410) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

ALPHA = 35.000 T/QA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 410/ 0 RN/L = 1.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	TEMP	ALPHA	CAU	CN	CLM	CBL	CYN	CY	CL	CD	T/QA
10.330	219.000	35.55000	.06150	1.09260	-.03834	-.00190	-.00131	-.00940	.85310	.68530	-.12624
10.330	273.000	35.56000	.06160	1.09830	-.03842	-.00190	-.00136	-.00960	.85770	.68880	-.06309
10.330	314.000	35.56000	.06160	1.10270	-.03878	-.00197	-.00138	-.00980	.86120	.69150	-.09459
10.330	353.000	35.57000	.06140	1.10560	-.03891	-.00195	-.00134	-.00980	.86360	.69310	-.12611
10.330	386.000	35.57000	.06140	1.10560	-.03884	-.00193	-.00137	-.00990	.86360	.69310	-.15757
10.330	417.000	35.58000	.06100	1.10580	-.03880	-.00195	-.00136	-.00990	.86390	.69310	-.18912
10.330	442.000	35.59000	.06110	1.11050	-.03924	-.00197	-.00132	-.01000	.86750	.69600	-.12616
10.330	463.000	35.58000	.06090	1.10960	-.03894	-.00191	-.00133	-.00970	.86700	.69510	-.15758
10.330	479.000	35.59000	.06100	1.11180	-.03949	-.00196	-.00131	-.00980	.86870	.69660	-.18931
10.330	497.000	35.59000	.06100	1.11130	-.03926	-.00196	-.00129	-.00970	.86820	.69640	-.12614
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

01N49 LARC CFHT 118 (MA-22)

(SJA003) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 3/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.351	147.29603	309.74351	193.46348	-1.54457
10.330	-.187	147.47194	309.89571	193.32766	-1.32486
10.330	10.028	147.47514	309.31829	192.96325	1.35253
10.330	20.226	147.33598	309.78222	193.43519	1.97181
10.330	35.589	147.50689	308.68518	192.52685	1.26866
	GRADIENT	.00000	.00000	.00000	.00000

01N49 LARC CFHT 118 (MA-22)

(SJA005) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 5/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.339	147.07102	-.60895	-.38093	-1.24929
10.330	-.164	147.22115	-.60883	-.38046	-.66158
10.330	9.929	147.05735	-.60895	-.38096	1.35098
10.330	20.255	147.16940	-.60891	-.38065	1.86350
10.330	35.693	147.11729	-.65973	-.41256	1.24036
	GRADIENT	.00000	.00000	.00000	.00000

01N49 LARC CFHT 118 (MA-22)

(SJA005) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 6/ 0 RN/L = .93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.311	146.85820	310.22694	194.34310	-1.55795
10.330	-.187	147.02368	309.75084	193.82644	-1.34094
10.330	10.041	147.17448	309.38835	193.40125	1.38693
10.330	20.141	147.08689	309.61795	193.66002	1.96834
10.330	35.511	147.28412	309.33762	193.22559	1.27315
	GRADIENT	.00000	.00000	.00000	.00000

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01N49 LARC CFHT 118 (MA-22)

(SJA011) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 11/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.357	147.83946	309.77020	192.76895	-1.52703
10.330	-.174	147.87254	309.63731	192.64315	-1.30119
10.330	10.042	147.87775	309.48505	192.54154	1.35866
10.330	20.204	147.99758	309.59860	192.45633	1.96367
10.330	35.584	148.12551	309.39562	192.16404	1.26993
	GRADIENT	.00000	.00000	.00000	.00000

01N31 LARC CFHT 118 (MA-22)

(SJA012) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 12/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.398	147.53843	-.71039	-.66639	-1.23875
10.330	-6.425	147.41430	-.71053	-.66708	-1.20051
10.330	-4.370	147.39003	-.65977	-.61953	-1.09352
10.330	-2.305	147.48010	-.71044	-.66670	-.95048
10.330	-.171	147.42939	-.71053	-.66701	-.68474
10.330	1.860	147.48778	-.71044	-.66666	-.35849
10.330	4.044	147.36177	-.71057	-.66736	.09368
10.330	5.776	147.48759	-.71048	-.66670	.45023
10.330	8.043	147.44862	-.71048	-.66688	.97438
10.330	10.080	147.42752	-.71048	-.66697	1.34854
10.330	15.057	147.53169	-.71044	-.66647	1.87629
10.330	20.053	147.50101	-.71039	-.66656	1.86321
10.330	25.304	147.40757	-.71048	-.66707	1.67018
10.330	30.370	147.41183	-.71053	-.66709	1.45551
10.330	35.560	147.38691	-.71057	-.66724	1.24494
	GRADIENT	-.00248	-.00482	-.00454	.14146

01N31 LARC CFHT 118 (MA-22)

(SJA013) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 13/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.342	147.19052	102.41092	96.29473	-1.41928
10.330	-6.347	147.30560	102.41092	96.21950	-1.43483
10.330	-4.283	147.39023	102.39812	96.15223	-1.34502
10.330	-2.323	147.24794	102.46807	96.31089	-1.20452
10.330	-.294	147.26962	102.47448	96.30274	-1.02597
10.330	2.005	147.35329	102.41732	96.19437	-.61121
10.330	3.747	147.30027	102.41732	96.22900	-.23539
10.330	6.062	147.36734	102.41092	96.17919	.34378
10.330	7.915	147.38262	102.21431	95.98459	.82121
10.330	10.061	147.40880	102.20793	95.96155	1.34756
10.330	14.973	147.30484	102.27146	96.08897	1.94099
10.330	20.253	147.48865	102.40452	96.09407	1.90962
10.330	25.216	147.35287	102.31582	96.09931	1.71115
10.330	30.357	147.39889	102.25867	96.01565	1.47817
10.330	35.515	147.27928	102.11919	95.96255	1.26272
GRADIENT		-.00323	-.00077	.00138	.13785

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01N31 LARC CFHT 118 (MA-22)

(SJAD14) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 80FLAP = .000
 NO.JET = 2.000

RUN NO. 14/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.346	147.49316	-.55824	-.52382	-1.24061
10.330	-6.437	147.47732	-.55827	-.52391	-1.22367
10.330	-4.146	147.42797	-.60898	-.57169	-1.09989
10.330	-2.297	147.41214	-.50752	-.47649	-.95778
10.330	-.273	147.48930	-.45674	-.42859	-.70853
10.330	2.036	147.58879	-.50748	-.47587	-.35645
10.330	3.739	147.48497	-.50749	-.47623	-.00107
10.330	5.854	147.56316	-.55817	-.52351	.44331
10.330	8.041	147.49229	-.55824	-.52383	.94432
10.330	9.991	147.36223	-.50752	-.47665	1.33883
10.330	15.029	147.52071	-.55817	-.52366	1.87681
10.330	20.248	147.43232	-.50752	-.47643	1.86537
10.330	25.325	147.40559	-.50749	-.47649	1.67130
10.330	30.438	147.36198	-.50752	-.47665	1.45463
10.330	35.623	147.45177	-.50746	-.47631	1.24414
	GRADIENT	.01506	.00982	.00927	.13920

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01N31 LARC CFHT 118 (MA-22)

(SJA015) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/GA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 15/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.326	147.45385	206.09056	193.43634	-1.67089
10.330	-6.140	147.45489	206.15419	193.49470	-1.74408
10.330	-4.283	147.68456	205.65886	192.72960	-1.73627
10.330	-2.270	147.68191	205.82395	192.88777	-1.61599
10.330	-.155	147.70297	205.81109	192.84822	-1.41236
10.330	1.995	147.60124	205.83682	193.00528	-1.03440
10.330	3.923	147.63163	205.90043	193.02516	-.56898
10.330	5.901	147.69848	205.81109	192.86714	.02460
10.330	7.845	147.79019	205.50663	192.44929	.71112
10.330	10.127	147.67218	205.59307	192.67472	1.38261
10.330	15.136	147.75586	205.67171	192.64863	2.03656
10.330	20.269	147.71123	205.74818	192.77849	1.97296
10.330	25.358	147.65161	205.69743	192.80876	1.73484
10.330	30.458	147.80013	205.57022	192.49589	1.49421
10.330	35.633	147.63258	205.49442	192.64330	1.27113
	GRADIENT	-.00911	.02367	.03428	.14081

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01N31 LARC CFHT 118 (MA-22)

(SJA016) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 16/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.283	147.59909	411.24128	385.61073	-2.27321
10.330	-6.355	147.74637	411.41921	385.39301	-2.51197
10.330	-4.224	147.65301	410.10042	384.40055	-2.65368
10.330	-2.231	147.74261	410.65866	384.69036	-2.76326
10.330	-.108	147.80508	411.14045	384.97890	-2.66953
10.330	2.054	147.83313	411.34410	385.09651	-2.40666
10.330	3.960	147.82631	410.96315	384.75763	-1.77856
10.330	5.941	147.99872	410.83536	384.18990	-.87502
10.330	8.160	147.88999	411.14109	384.75847	.39533
10.330	10.106	147.91483	410.17681	383.79160	1.40609
10.330	15.177	148.12431	410.68374	383.72249	2.26374
10.330	20.273	148.00757	410.93809	384.26299	2.11315
10.330	25.377	147.99079	410.93809	384.30656	1.81554
10.330	30.516	148.11158	410.35362	383.44699	1.53725
10.330	35.507	148.07838	410.81090	383.96036	1.30521
	GRADIENT	.02121	.11764	.05497	.10144

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MA22 - FORCE SOURCE DATA TABULATION

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01N34 LARC CFHT 118 (MA-22)

(SJA017) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 17/ 0 RN/L = .93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.287	147.23818	267.61530	96.69458	-1.36634
10.330	-6.295	147.27449	267.53054	96.64012	-1.37315
10.330	-4.279	147.23165	267.42905	96.63157	-1.26990
10.330	-2.255	147.18574	267.71624	96.76551	-1.10844
10.330	-.243	147.14138	267.75026	96.80699	-.93390
10.330	1.841	147.29129	267.46308	96.60473	-.59717
10.330	4.069	147.29398	267.93650	96.77396	-.11861
10.330	5.752	147.23294	267.64876	96.71011	.27990
10.330	7.973	147.21068	267.91925	96.82248	.86841
10.330	9.965	147.35337	267.80100	96.68603	1.30084
10.330	15.230	147.31782	267.91976	96.75225	1.92059
10.330	20.307	147.12395	267.83449	96.84891	1.90000
10.330	25.395	147.15672	268.00400	96.88863	1.69440
10.330	30.582	147.29506	268.15625	96.85262	1.46471
10.330	35.634	147.10391	268.42677	97.07630	1.25571
	GRADIENT	.01125	.03702	.00599	.13595

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01N34 LARC CFHT 118 (MA-22)

(SJA018) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 SDFLAP = .000
 NO.JET = 2.000

RUN NO. 18/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.364	147.84606	535.17872	192.57535	-1.49587
10.330	-6.383	147.91997	534.87421	192.36961	-1.56259
10.330	-4.284	148.03877	533.96205	191.88744	-1.49180
10.330	-2.305	147.82113	534.48554	192.35836	-1.39382
10.330	-.272	147.94494	534.85689	192.33092	-1.19178
10.330	1.808	147.80186	534.41744	192.35893	-.86215
10.330	3.785	147.99311	534.41744	192.11034	-.40038
10.330	5.930	148.11073	534.24915	191.89734	.19939
10.330	7.930	148.04965	534.43479	192.04321	.82347
10.330	10.186	148.15461	534.70586	192.00450	1.40948
10.330	15.147	148.12700	535.60201	192.36214	2.01113
10.330	20.263	148.14542	535.80500	192.41112	1.94780
10.330	25.377	148.02147	535.63549	192.51131	1.72033
10.330	30.344	148.09447	535.19602	192.25855	1.49187
10.330	35.479	148.05699	534.95840	192.22184	1.27192
	GRADIENT	-.00548	.04115	.02190	.13409

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 12 JAN 78

01N34 LARC CFHT 118 (MA-22)

(SJA019) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 19/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.374	148.01236	719.92137	258.76093	-1.64313
10.330	-6.424	148.14877	719.77488	258.47007	-1.75172
10.330	-4.324	148.11212	719.77488	258.53403	-1.72153
10.330	-2.078	148.23095	719.71837	258.30649	-1.62762
10.330	-.170	148.20855	718.60190	257.94477	-1.42374
10.330	1.995	148.30032	719.10939	257.96721	-1.05684
10.330	3.907	148.34112	718.96295	257.84373	-.58275
10.330	5.997	148.27482	718.50040	257.79306	.10103
10.330	7.927	148.15783	719.45307	258.33871	.77889
10.330	9.977	148.21395	719.61688	258.29969	1.36246
10.330	15.136	148.14628	719.00208	258.19690	2.05781
10.330	20.210	148.29827	718.60190	257.78871	1.98181
10.330	25.457	148.35610	718.90639	257.79742	1.73494
10.330	30.477	148.34490	718.86146	257.80077	1.49395
10.330	35.640	148.21557	718.39306	257.85759	1.27076
	GRADIENT	.02587	-.10772	-.08372	.13801

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01M47 LARC CFHT 118 (MA-22)

(SJA020) (12 JAN 78)

REFERENCE DATA

SREF * 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 20/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.303	147.92668	300.77452	96.37688	-1.37228
10.330	-6.356	147.95901	300.87603	96.38834	-1.38589
10.330	-4.304	148.03606	300.24820	96.13715	-1.27766
10.330	-2.287	148.03098	300.28019	96.15069	-1.12841
10.330	-.282	148.19203	300.43243	96.09489	-.97328
10.330	1.997	148.05589	300.17869	96.10202	-.58801
10.330	3.907	148.00004	300.33094	96.18704	-.16962
10.330	5.932	148.17580	300.26142	96.05071	.32059
10.330	7.938	148.09131	300.31216	96.12175	.81777
10.330	10.091	148.23775	300.31216	96.02680	1.30172
10.330	15.198	148.07059	300.09595	96.06599	1.92977
10.330	20.181	148.16351	299.51896	95.82115	1.90540
10.330	25.395	148.02751	300.14670	96.11020	1.69834
10.330	30.514	148.18697	299.88746	95.92385	1.47117
	GRADIENT	-.00250	.00242	.00240	.13323

01N47 LARC CFHT 118 (MA-22)

(SJA021) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 21/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.341	148.12442	602.67874	192.85795	-1.54389
10.330	-6.477	147.98753	600.87604	192.45894	-1.60748
10.330	-4.275	148.12473	600.64867	192.20792	-1.55231
10.330	-2.295	148.12872	600.14115	192.04034	-1.43804
10.330	-.185	148.23627	600.50363	192.01883	-1.24729
10.330	1.819	148.20108	600.66187	192.11312	-.90914
10.330	3.909	148.15574	600.14115	192.00532	-.42606
10.330	6.061	148.23493	600.78772	192.10949	.19791
10.330	7.938	148.12413	599.87413	191.96084	.76863
10.330	10.096	148.14090	599.91163	191.95111	1.36330
10.330	15.149	148.19735	600.45888	192.05225	1.99468
10.330	20.100	148.19795	600.45888	192.05225	1.94622
10.330	25.257	148.17448	600.39491	192.06221	1.72839
10.330	30.538	148.15914	600.29340	192.04962	1.48207
10.330	35.513	148.11908	600.33093	192.11357	1.27021
	GRADIENT	.00658	-.02392	-.01619	.13594

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01N47 LARC CFHT 118 (MA-22)

(SJA022) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 22/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.321	147.85182	805.78744	258.32840	-1.74168
10.330	-6.261	147.98822	807.51366	258.64320	-1.81813
10.330	-4.324	148.07170	807.97065	258.64367	-1.81248
10.330	-2.273	148.08536	807.97040	258.61973	-1.71272
10.330	-.139	148.02668	806.75146	258.33194	-1.52603
10.330	2.014	148.08886	806.89254	258.23982	-1.14857
10.330	3.875	148.05964	807.51311	258.51826	-.68354
10.330	6.022	148.13136	807.25904	258.31180	.01019
10.330	7.960	148.08720	807.41216	258.43784	.71884
10.330	10.053	148.12920	807.00587	258.23455	1.36690
10.330	15.157	148.15194	807.15812	258.24363	2.05316
10.330	20.180	148.13168	806.34574	258.01900	1.98542
10.330	25.406	148.18005	807.41216	258.27590	1.74130
10.330	30.384	148.16593	807.61435	258.36520	1.50356
10.330	35.643	148.08208	806.44657	258.13770	1.27441
	GRADIENT	-.00097	-.10365	-.03149	.13581

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MA22 - FORCE SOURCE DATA TABULATION

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01N43 LARC CFHT 118 (MA-22)

(SJA023) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 23/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.488	147.95231	284.70033	96.21354	-1.34822
10.330	-6.189	147.91445	284.56587	96.19272	-1.34900
10.330	-4.163	147.82925	284.39842	96.19152	-1.24201
10.330	-2.259	147.86762	284.46437	96.18886	-1.09717
10.330	-.207	148.06252	284.64958	96.12479	-.91771
10.330	1.940	148.04357	284.49733	96.08568	-.55957
10.330	4.059	147.88814	284.53240	96.19869	-.10783
10.330	5.944	147.98836	284.39584	96.08723	.31700
10.330	8.004	147.94581	284.15985	96.03511	.85145
10.330	10.151	147.94329	283.95585	95.96814	1.31587
10.330	15.086	147.96257	284.39584	96.10398	1.91688
10.330	20.232	147.83394	284.39842	96.18847	1.89708
10.330	25.178	147.92310	284.10910	96.03270	1.70488
10.330	30.436	147.84472	284.04311	96.06130	1.47151
10.330	35.587	147.81556	284.32988	96.17725	1.25665
	GRADIENT	.01380	.01422	-.00417	.13653

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MA22 - FORCE SOURCE DATA TABULATION

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01N43 LARC CFHT 118 (MA-22)

(SJA024) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 24/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.437	147.81292	-.65973	-.22318	-1.24660
10.330	-6.208	147.72770	-.65977	-.22331	-1.20959
10.330	-4.327	147.65355	-.65977	-.22342	-1.11465
10.330	-2.156	147.64236	-.65977	-.22344	-.95201
10.330	-.269	147.65173	-.71062	-.24064	-.71113
10.330	1.854	147.56505	-.55834	-.18918	-.35705
10.330	3.844	147.66126	-.65977	-.22341	.01624
10.330	5.726	147.61491	-.60910	-.20631	.44240
10.330	8.068	147.65515	-.65982	-.22343	.96308
10.330	10.000	147.54238	-.60902	-.20625	1.32789
10.330	14.942	147.59959	-.65977	-.22350	1.87117
10.330	20.200	147.71079	-.60895	-.20613	1.86065
10.330	25.168	147.56345	-.65982	-.22357	1.67829
10.330	30.450	147.64723	-.60898	-.20623	1.45261
10.330	35.600	147.63640	-.60902	-.20626	1.24378
	GRADIENT	-.00313	.00513	.00173	.14022

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 OF POOR QUALITY

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MA22 - FORCE SOURCE DATA TABULATION

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Q1N43 LARC CFHT 118 (MA-22)

(SJA025) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 GOFLAP = .000
 NOJET = 2.000

RUN NO. 25/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.263	147.32320	-.55831	-.18948	-1.23892
10.330	-6.375	147.36671	-.50752	-.17220	-1.20489
10.330	-4.361	147.38349	-.60902	-.20661	-1.11296
10.330	-2.281	147.38312	-.60898	-.20660	-.95168
10.330	-.222	147.40478	-.50752	-.17215	-.68500
10.330	1.854	147.44532	-.45671	-.15487	-.36266
10.330	4.104	147.27379	-.50758	-.17233	.08731
10.330	5.886	147.44266	-.55820	-.18929	.47100
10.330	8.031	147.52332	-.45674	-.15480	.96546
10.330	9.969	147.37165	-.50752	-.17219	1.32310
10.330	15.085	147.32188	-.50755	-.17226	1.68305
10.330	20.172	147.39124	-.50746	-.17215	1.85714
10.330	25.295	147.36847	-.50755	-.17220	1.67168
10.330	30.436	147.48950	-.50746	-.17203	1.45225
10.330	35.559	147.34217	-.50752	-.17222	1.24514
	GRADIENT	-.00776	.01668	.00565	.14226

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MA22 - FORCE SOURCE DATA TABULATION

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01N43 LARC CFHT 118 (MA-22)

(SJA026) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 SDFLAP = .000
 NO.JET = 2.000

RUN NO. 26/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.445	148.65322	569.82178	191.66143	-1.50289
10.330	-6.303	148.53770	569.52260	191.70978	-1.56523
10.330	-4.266	148.63016	569.26358	191.50339	-1.48737
10.330	-2.252	148.57233	569.72562	191.73342	-1.40014
10.330	-.197	148.66451	569.84227	191.65376	-1.18220
10.330	2.019	148.55352	569.60896	191.71843	-.83698
10.330	3.876	148.58096	569.40593	191.61470	-.40867
10.330	5.936	148.54639	569.11656	191.56189	.16365
10.330	8.083	148.78154	568.80687	191.15505	.82293
10.330	10.019	148.63567	569.60896	191.61247	1.33948
10.330	15.109	148.63942	569.74610	191.65377	1.96947
10.330	20.400	148.84630	569.51731	191.31053	1.92592
10.330	25.441	148.73347	569.60365	191.48469	1.71499
10.330	30.468	148.60812	569.50216	191.35453	1.48331
10.330	35.568	148.74593	569.45141	191.41747	1.26639
	GRADIENT	-.00583	.00817	.01026	.13213

01N43 LARC CFHT 118 (MA-22)

(SJA027) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 27/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.238	148.37844	764.62508	257.66043	-1.70347
10.330	-6.294	148.35726	765.54447	258.00708	-1.77672
10.330	-4.255	148.36800	765.64307	258.02163	-1.72067
10.330	-2.241	148.36055	764.72659	257.72572	-1.64215
10.330	-.227	148.42481	765.08773	257.73579	-1.44605
10.330	1.868	148.55429	765.49662	257.64877	-1.10779
10.330	4.084	148.59470	765.38931	257.54260	-.59756
10.330	5.982	148.60067	765.49372	257.56738	.00956
10.330	7.941	148.63594	764.83399	257.28434	.70130
10.330	10.147	148.58845	765.34439	257.53831	1.35726
10.330	15.121	148.59133	764.68174	257.31034	2.01445
10.330	20.230	148.59057	765.23122	257.49656	1.96384
10.330	25.335	148.67729	765.38349	257.39758	1.73736
10.330	30.544	148.66270	765.39222	257.42577	1.48928
10.330	35.626	148.62248	764.32352	257.13590	1.27092
	GRADIENT	.03120	.01345	-.04964	.13453

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01N79N78 LARC CFHT 118 (MA-22)

(SJA028) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 28/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.311	147.98850	156.57938	96.28264	-1.34848
10.330	-6.338	147.98634	156.42712	96.19042	-1.34560
10.330	-4.309	148.08466	156.49928	96.17090	-1.26132
10.330	-2.306	148.01986	156.68089	96.32465	-1.14460
10.330	-.311	148.06695	156.66130	96.28197	-.90914
10.330	1.819	148.03192	156.52863	96.22320	-.64715
10.330	3.769	148.18748	156.50906	96.11017	-.28589
10.330	5.894	148.09248	156.74144	96.31462	.22944
10.330	8.025	148.03659	156.63014	96.28257	.81964
10.330	10.022	148.17230	156.81355	96.30702	1.27882
10.330	15.062	148.04524	156.57938	96.24574	1.89864
10.330	20.205	148.17569	156.66130	96.21132	1.88527
10.330	25.294	148.04397	156.78240	96.37136	1.69032
10.330	30.518	148.18687	156.91505	96.35988	1.46200
10.330	35.437	148.09466	156.93467	96.43194	1.26009
	GRADIENT	.01064	-.00672	-.01104	.12071

01N79N78 LARC CFHT 118 (MA-22)

(SJA029) (12 JAN '78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 29/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.295	148.29262	312.40913	191.71035	-1.50545
10.330	-6.315	148.26707	312.02264	191.50618	-1.52043
10.330	-4.291	148.24157	312.27640	191.69489	-1.45378
10.330	-2.321	148.19336	312.37791	191.81959	-1.42183
10.330	-.306	148.32681	311.90164	191.35481	-1.33267
10.330	1.799	148.36965	311.85090	191.26844	-1.06564
10.330	3.753	148.36071	311.81964	191.26079	-.64659
10.330	5.944	148.25988	311.94064	191.46514	-.00722
10.330	7.918	148.30302	311.90164	191.38551	.63901
10.330	10.147	148.27267	311.85862	191.39828	1.26161
10.330	15.095	148.42029	311.80015	191.17206	1.92720
10.330	20.387	148.29467	311.78837	191.32678	1.90649
10.330	25.362	148.29593	311.73762	191.29401	1.70651
10.330	30.606	148.32516	311.70635	191.23713	1.47069
10.330	35.577	148.41944	311.29266	190.86200	1.26093
	GRADIENT	.02059	-.07140	-.07041	.09757

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA030) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 30/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.392	147.98315	625.86073	384.86359	-1.95113
10.330	-6.451	148.09958	625.97386	384.63053	-2.03366
10.330	-4.318	148.09861	625.00957	384.04053	-2.12190
10.330	-2.285	148.19833	625.07201	383.82047	-2.15868
10.330	-.176	148.15854	625.74758	384.33849	-2.08417
10.330	2.006	148.23805	625.65771	384.07717	-1.79640
10.330	3.925	148.36208	625.66935	383.76323	-1.28830
10.330	5.876	148.36410	625.33741	383.55440	-.57170
10.330	8.053	148.33458	625.70846	383.85836	.36177
10.330	10.079	148.48109	625.42725	383.30725	1.10742
10.330	15.301	148.39400	625.15016	383.36229	2.00210
10.330	20.370	148.54375	625.17350	382.99011	1.96311
10.330	25.373	148.50391	625.15016	383.07856	1.74606
10.330	30.623	148.46054	625.23999	383.24553	1.49384
10.330	35.627	148.54883	625.65771	383.27364	1.27643
	GRADIENT	.02711	.09205	-.01371	.09724

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA031) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 31/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.337	148.07351	-.65965	-.40539	-1.34509
10.330	-6.335	148.04865	-.65973	-.40551	-1.34936
10.330	-4.203	147.98931	-.76118	-.46806	-1.27100
10.330	-2.316	147.97754	-.65977	-.40573	-1.15243
10.330	-.180	147.83269	-.71053	-.43737	-.91490
10.330	2.069	147.90800	-.71044	-.43710	-.60163
10.330	4.130	147.94585	-.71048	-.43701	-.19009
10.330	5.992	147.82022	-.71062	-.43747	.23157
10.330	7.926	147.98464	-.65973	-.40569	.68742
10.330	9.912	147.75757	-.60910	-.37513	1.13453
10.330	15.127	147.67917	-.65982	-.40658	1.79182
10.330	20.239	147.74387	-.60906	-.37514	1.80331
10.330	25.382	147.83896	-.71048	-.43733	1.63302
10.330	30.409	147.82653	-.65973	-.40612	1.42862
10.330	35.796	147.85319	-.65973	-.40605	1.21916
	GRADIENT	-.00725	.00216	.00131	.12927

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA032) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 32/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.456	147.69271	156.76280	96.58848	-1.42095
10.330	-6.184	147.78671	156.61056	96.43330	-1.46662
10.330	-4.320	147.68050	156.79220	96.61458	-1.42241
10.330	-2.148	147.70123	156.57938	96.46990	-1.28624
10.330	-.256	147.81032	156.62034	96.42392	-1.11849
10.330	1.880	147.68235	156.52863	96.45096	-.79792
10.330	3.892	147.75145	156.63993	96.47441	-.42758
10.330	5.759	147.86150	156.55981	96.35329	.06008
10.330	7.999	147.77251	156.51884	96.38609	.65225
10.330	9.992	147.63346	156.43689	96.42636	1.13601
10.330	15.170	147.74497	156.42712	96.34756	1.86136
10.330	20.283	147.65814	156.57938	96.49806	1.34940
10.330	25.379	147.84167	156.55981	96.36622	1.65876
10.330	30.412	147.82076	156.35681	96.25488	1.44537
10.330	35.577	147.79175	156.46809	96.34229	1.24061
	GRADIENT	.00584	-.01767	-.01470	.12111

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA033) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 33/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.327	147.78111	312.49110	192.42439	-1.50789
10.330	-6.255	147.66250	312.70197	192.70890	-1.56058
10.330	-4.259	147.67332	312.78392	192.74529	-1.57710
10.330	-2.298	147.79135	312.37791	192.34136	-1.54676
10.330	-.209	147.87785	312.69408	192.42342	-1.39568
10.330	1.843	147.93532	312.51063	192.23582	-1.14673
10.330	3.764	147.80593	312.34668	192.30316	-.73929
10.330	5.957	147.92559	312.08513	191.98672	-.11745
10.330	7.988	147.79297	312.60046	192.47628	.56267
10.330	10.057	147.84395	312.25689	192.19844	1.13880
10.330	15.106	147.90196	311.85090	191.87326	1.90448
10.330	20.247	147.77928	312.16317	192.22484	1.88917
10.330	25.381	147.85922	312.60046	192.39004	1.68843
10.330	30.537	147.87290	312.24517	192.15360	1.46061
10.330	35.641	147.80754	311.90938	192.03183	1.25189
	GRADIENT	.02047	-.03624	-.04898	.10260

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA034) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 34/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.163	147.70805	625.77085	385.52500	-1.76138
10.330	-6.417	147.77374	625.87236	385.41613	-1.88220
10.330	-4.317	147.75247	624.79487	384.80799	-1.98403
10.330	-2.048	147.92097	624.81826	384.38404	-1.99073
10.330	-.197	147.84633	625.35318	384.90734	-1.95187
10.330	1.851	147.89038	625.49379	384.87922	-1.76212
10.330	4.079	148.02046	625.40393	384.48574	-1.29907
10.330	6.021	148.07521	625.31409	384.28837	-.63963
10.330	8.100	148.05474	625.40393	384.39672	.21260
10.330	9.896	148.08169	625.35318	384.29558	.91162
10.330	15.097	148.15219	624.99789	383.89448	1.98012
10.330	20.248	148.18288	625.07201	383.86048	1.96893
10.330	25.406	148.21051	625.20091	383.86806	1.74388
10.330	30.415	148.31549	624.72847	383.30648	1.50194
10.330	35.701	148.15830	624.94713	383.84746	1.27411
	GRADIENT	.02495	.09005	-.00949	.07770

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA033) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 35/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/O
10.330	-8.334	150.00631	-.50752	-.30789	-1.18994
10.330	-6.364	150.00347	-.50749	-.30787	-1.15490
10.330	-4.167	150.23008	-.55820	-.33812	-1.0585
10.330	-2.360	150.16918	-.50746	-.30751	-.91002
10.330	-.194	150.18680	-.60891	-.36895	-.61200
10.330	1.810	150.08489	-.50746	-.30768	-.27189
10.330	3.806	150.04575	-.50746	-.30777	.11514
10.330	5.767	150.17099	-.50746	-.30751	.54053
10.330	7.967	150.03887	-.50749	-.30780	1.05356
10.330	10.015	150.09847	-.60898	-.36923	1.42381
10.330	15.104	150.02519	-.45674	-.27704	1.90212
10.330	20.264	150.01398	-.50749	-.30785	1.83680
10.330	25.209	150.07937	-.50746	-.30770	1.64188
10.330	30.331	150.10589	-.50746	-.30764	1.42101
10.330	35.537	150.08668	-.50746	-.30768	1.21304
	GRADIENT	-.02243	.00488	.00291	.14799

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MA22 - FORCE SOURCE DATA TABULATION

PAGE 313

Q1N79N78 LARC CFHT 118 (MA-22)

(SJA038) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 36/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.303	149.84645	156.85450	95.25590	-1.31240
10.330	-6.488	149.76148	157.01655	95.40842	-1.28801
10.330	-4.335	149.76185	156.77260	95.25995	-1.20812
10.330	-2.274	149.78860	156.66130	95.17532	-1.10126
10.330	-.303	149.68071	156.82335	95.34245	-.85164
10.330	1.798	149.68870	156.92315	95.39803	-.56719
10.330	3.814	149.68345	156.89372	95.38348	-.15539
10.330	5.735	149.78514	156.86430	95.30085	.33033
10.330	7.919	149.84229	156.70226	95.16609	.87475
10.330	9.938	149.87436	156.77260	95.18844	1.33949
10.330	15.018	149.71668	156.78240	95.29465	1.92224
10.330	20.121	149.88678	156.64172	95.10109	1.87383
10.330	25.278	149.93809	156.64172	95.06855	1.66002
10.330	30.511	149.81887	156.44853	95.02685	1.42909
10.330	35.486	149.82186	156.60077	95.11743	1.22562
	GRADIENT	-.01254	.02471	.02300	.12958

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA037) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 37/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.404	149.72014	312.84632	190.14820	-1.46078
10.330	-6.415	149.64607	312.49894	190.03107	-1.50659
10.330	-4.336	149.60494	312.60046	190.14507	-1.42362
10.330	-2.327	149.69541	312.60046	190.03015	-1.39321
10.330	-.310	149.79104	312.49110	189.84239	-1.26677
10.330	1.781	149.67850	312.34668	189.89733	-.97466
10.330	4.048	149.75765	312.60046	189.95117	-.48547
10.330	5.992	149.86361	312.49110	189.75047	.09417
10.330	8.026	149.88513	312.10464	189.48859	.73523
10.330	9.971	149.69491	311.80787	189.54897	1.27907
10.330	15.034	149.77408	312.09290	189.62195	1.94682
10.330	20.179	149.85601	312.45988	189.74113	1.89912
10.330	25.281	149.78904	312.12415	189.62200	1.67992
10.330	30.263	149.73575	311.96014	189.58981	1.45316
10.330	35.505	149.85288	312.40913	189.71428	1.23319
	GRADIENT	.01367	-.01149	-.02434	.11094

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA038) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BD FLAP = .000
 NO. JET = 2.000

RUN NO. 38/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.330	149.41792	625.16183	380.74232	-1.69420
10.330	-6.325	149.50670	625.41559	380.67069	-2.00672
10.330	-4.267	149.65641	625.47800	380.32782	-2.10485
10.330	-2.264	149.55612	625.50544	380.59957	-2.11858
10.330	-.292	149.49865	624.49034	380.12798	-2.03415
10.330	1.842	149.68092	625.25167	380.12795	-1.77830
10.330	3.805	149.74354	624.89638	379.75307	-1.23444
10.330	5.843	149.69600	625.75922	380.39820	-.46464
10.330	7.928	149.80101	625.92311	380.23110	.39383
10.330	10.129	149.88311	625.73174	379.90663	1.17669
10.330	15.123	149.85339	624.81826	379.42725	1.99283
10.330	20.229	149.78991	625.60695	380.06720	1.94462
10.330	25.362	149.75130	625.44303	380.06558	1.71614
10.330	30.448	149.95347	625.73174	379.72837	1.46705
10.330	35.526	149.87927	624.66602	379.26931	1.24833
	GRADIENT	.01500	-.06875	-.07991	.10287

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MA22 - FORCE SOURCE DATA TABULATION

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01N78 LARC CFHT 118 (MA-22)

(SJA039) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 39/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.425	149.19272	626.16526	188.86603	-1.41887
10.330	-6.209	149.24977	625.08772	188.46894	-1.37302
10.330	-4.327	149.16447	625.96224	188.84055	-1.36591
10.330	-2.375	149.28443	625.82160	188.64641	-1.23710
10.330	-.253	149.24986	625.55620	188.61008	-1.01359
10.330	1.838	149.37245	625.36484	188.39764	-.73981
10.330	4.040	149.24230	625.13848	188.49368	-.23237
10.330	5.977	149.35984	624.88469	188.26888	.28441
10.330	7.891	149.38745	625.61860	188.45516	.82424
10.330	10.112	149.26090	625.68518	188.63502	1.35056
10.330	15.060	149.51249	625.69263	188.31984	1.91592
10.330	20.119	149.49371	624.81826	188.08030	1.85963
10.330	25.243	149.46340	625.52874	188.33235	1.65419
10.330	30.419	149.34313	625.49379	188.47349	1.42763
10.330	35.445	149.47389	625.07201	188.18163	1.22349
	GRADIENT	.01130	-.10054	-.04460	.13254

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(SJA040) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 SREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 40/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.442	149.90895	629.28415	379.47892	-1.51704
10.330	-6.471	149.99403	629.06973	379.13445	-1.58270
10.330	-4.392	149.98969	630.37793	379.93388	-1.52710
10.330	-2.331	150.06230	631.33098	380.32417	-1.45827
10.330	-.199	150.08645	629.80824	379.34580	-1.27630
10.330	1.766	150.29975	629.49855	378.62118	-1.05035
10.330	3.710	150.29695	629.72950	378.76714	-.68326
10.330	5.869	150.36778	628.38215	377.77871	-.08097
10.330	7.885	150.20710	629.00754	378.55921	.62227
10.330	10.099	150.33415	632.36860	380.26038	1.20070
10.330	15.079	150.49911	630.40062	378.66148	1.87652
10.330	20.140	150.47197	630.86868	379.01097	1.85686
10.330	25.301	150.51865	628.12842	377.24766	1.65251
10.330	30.345	150.55148	628.26918	377.24992	1.43266
10.330	35.534	150.55023	628.52292	377.40540	1.22094
	GRADIENT	.04188	-.15518	-.19923	.10276

01N85 LARC CFHT 118 (MA-22)

(SJA041) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = 10.000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 41/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.436	149.39612	-.65982	-.39926	-1.19559
10.330	-6.491	149.48917	-.65982	-.39901	-1.16554
10.330	-4.348	149.39612	-.65982	-.39926	-1.04882
10.330	-2.356	149.40923	-.60910	-.36854	-.88398
10.330	-.267	149.36812	-.65982	-.39933	-.61828
10.330	1.818	149.45213	-.65986	-.39913	-.28405
10.330	4.041	149.41617	-.65977	-.39918	.17617
10.330	5.938	149.37486	-.65986	-.39934	.58666
10.330	7.948	149.47099	-.71053	-.42973	1.01737
10.330	10.164	149.35413	-.60906	-.36865	1.42965
10.330	15.164	149.38470	-.65982	-.39929	1.89906
10.330	20.221	149.33724	-.60910	-.36871	1.83704
10.330	25.291	149.32605	-.71062	-.43020	1.64007
10.330	30.416	149.48747	-.65977	-.39898	1.41914
10.330	35.353	149.42336	-.71048	-.42984	1.22138
	GRADIENT	.00394	-.00246	-.00148	.14601

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(S. 2042) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 42/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.337	149.53981	630.05066	380.87903	-1.52531
10.330	-6.415	149.71746	630.55287	380.73034	-1.56928
10.330	-4.192	149.75076	630.27642	380.47879	-1.54415
10.330	-2.373	149.85393	630.32717	380.24746	-1.45888
10.330	-.287	149.79998	630.46809	380.46944	-1.29969
10.330	1.780	149.84625	629.61660	379.83826	-1.01900
10.330	3.952	149.92838	630.26506	380.02119	-.61171
10.330	5.842	149.98939	630.62037	380.08076	-.09894
10.330	7.878	149.93312	630.92492	380.40702	.61096
10.330	10.078	149.91241	630.91360	380.45275	1.17547
10.330	15.255	150.01841	630.77264	380.09898	1.87717
10.330	20.228	150.09604	630.73321	379.87865	1.84858
10.330	25.307	150.14050	630.08476	379.37573	1.64843
10.330	30.355	149.97686	630.35523	379.95270	1.42972
10.330	35.461	150.03603	630.85152	380.10188	1.22281
	GRADIENT	.01694	-.03565	-.06448	.11352

ORIGINAL PAGE IS
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MA22 - FORCE SOURCE DATA TABULATION

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01N78 LARC CFHT 118 (MA-22)

(SJA043) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BOFLAP = -14.250
 NO.JET = 1.000

RUN NO. 43/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.339	149.53415	624.38883	187.90020	-1.42208
10.330	-6.401	149.62028	624.86901	187.93645	-1.36718
10.330	-4.191	149.67544	624.76751	187.84295	-1.35542
10.330	-2.353	149.61436	625.45469	188.12004	-1.23770
10.330	-.324	149.61507	624.27559	187.76451	-1.03597
10.330	1.773	149.48339	624.73241	188.06743	-.72713
10.330	3.959	149.64759	624.69336	187.84934	-.26476
10.330	5.784	149.62897	624.58794	187.84101	.23610
10.330	7.925	149.75669	624.88070	187.76878	.64962
10.330	9.939	149.73373	624.20938	187.59579	1.29850
10.330	15.053	149.77337	624.55281	187.64935	1.90781
10.330	20.146	149.71763	624.89638	187.83502	1.84819
10.330	25.400	149.81488	624.41227	187.55514	1.64299
10.330	30.406	149.70347	624.45130	187.70646	1.42540
10.330	35.517	149.73708	624.61919	187.71478	1.22023
	GRADIENT	-.00827	-.04295	-.00253	.13268

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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OIN79N78 LARC CFHT 118 (MA-22)

(SJA044) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 44/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.395	149.61982	625.60695	380.49927	-1.90732
10.330	-6.459	149.66682	625.49379	380.31097	-2.01853
10.330	-4.294	149.75713	624.74411	379.62608	-2.14034
10.330	-2.277	149.81108	625.00957	379.65062	-2.14015
10.330	-.204	149.90308	625.56785	379.75653	-2.09595
10.330	1.958	149.83195	625.58365	379.94641	-1.74905
10.330	3.862	149.95551	625.60655	379.64748	-1.21543
10.330	5.904	150.06127	625.57949	379.36326	-.49060
10.330	7.911	150.02105	624.63090	378.88957	.34383
10.330	10.135	150.01143	624.68165	378.94465	1.13174
10.330	15.126	150.03284	625.49379	379.38317	1.97858
10.330	20.228	150.20175	625.41559	378.90916	1.93229
10.330	25.502	150.20967	625.37650	378.86549	1.69865
10.330	30.462	150.19045	625.36484	378.90691	1.46183
10.330	35.574	150.19562	625.54454	379.00274	1.24418
	GRADIENT	.02014	.11216	.01710	.10865

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA045) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 45/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.375	149.47693	-.71053	-.43256	-1.19881
10.330	-6.420	149.39504	-.65982	-.40191	-1.16287
10.330	-4.416	149.42407	-.76142	-.46371	-1.06222
10.330	-2.291	149.43453	-.71057	-.43271	-.90471
10.330	-.232	149.49892	-.76137	-.46345	-.64018
10.330	2.009	149.42335	-.76133	-.46366	-.25685
10.330	3.855	149.46406	-.65977	-.40170	.15030
10.330	5.875	149.38797	-.71057	-.43285	.59843
10.330	7.886	149.32268	-.71062	-.43306	1.03021
10.330	9.904	149.53229	-.71048	-.43237	1.40606
10.330	15.145	149.42491	-.65982	-.40183	1.91239
10.330	20.233	149.41409	-.71062	-.43280	1.83523
10.330	25.279	149.40036	-.71062	-.43284	1.63193
10.330	30.321	149.32860	-.65986	-.40211	1.41307
10.330	35.449	149.31023	-.71062	-.43310	1.20655
	GRADIENT	.00318	.00709	.00433	.14704

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA0461 (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 ØREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 46/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/O
10.330	-8.414	149.64550	624.37710	379.68609	-1.87894
10.330	-6.482	149.67067	624.43958	379.66023	-1.98457
10.330	-4.352	149.81238	624.85732	379.55485	-2.08570
10.330	-2.279	149.78621	624.59185	379.45988	-2.09454
10.330	-.211	149.81844	624.08430	379.06996	-1.98262
10.330	1.959	149.83279	623.98279	378.97200	-1.64096
10.330	3.851	149.93940	624.61527	379.08641	-1.13157
10.330	5.901	150.02667	625.31409	379.28977	-.35127
10.330	7.895	149.98573	625.36484	379.42410	.52655
10.330	10.118	150.00705	625.32575	379.34645	1.26618
10.330	15.055	149.96685	624.58014	378.99570	2.02033
10.330	20.150	150.02660	625.15016	379.19051	1.94976
10.330	25.233	150.16185	625.12276	378.83237	1.71224
10.330	30.318	150.09213	625.39227	379.17175	1.46271
10.330	35.437	150.05979	624.79487	378.89119	1.24021
	GRADIENT	.01440	-.05447	-.06952	.11383

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MA22 - FORCE SOURCE DATA TABULATION

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01N78 LARC CFHT 118 (MA-22)

(SJA047) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 1.000

RUN NO. 47/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.536	149.39752	624.63090	188.14496	-1.42524
10.330	-6.388	149.38991	625.25167	188.34153	-1.36307
10.330	-4.168	149.55250	624.94713	188.04514	-1.37389
10.330	-2.300	149.53108	625.17350	188.14020	-1.25083
10.330	-.280	149.56392	626.70754	188.56044	-1.04281
10.330	1.810	149.45365	624.14679	187.92853	-.74097
10.330	4.015	149.60670	624.82996	187.94176	-.23577
10.330	5.867	149.50314	624.37710	187.93564	.28230
10.330	7.902	149.50569	624.73241	188.03938	.86221
10.330	9.910	149.51241	625.23999	188.18370	1.34039
10.330	14.870	149.65623	624.86901	187.89131	1.92292
10.330	20.122	149.64796	624.70506	187.85239	1.85542
10.330	25.132	149.53220	624.38883	187.90265	1.65106
10.330	30.369	149.47071	624.32635	187.96114	1.41887
10.330	35.513	149.56126	624.36538	187.85909	1.20995
	GRADIENT	.00178	-.06518	-.02185	.13702

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(SJA048) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 48/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.414	147.79528	-.50758	-.31046	-1.20200
10.330	-6.325	147.76051	-.55834	-.34159	-1.15468
10.330	-4.336	147.93073	-.50752	-.31014	-1.06083
10.330	-2.279	147.88315	-.50752	-.31024	-.92262
10.330	-.296	147.85432	-.50752	-.31030	-.64415
10.330	1.990	147.93039	-.50752	-.31014	-.26805
10.330	3.866	147.72937	-.50758	-.31060	.14430
10.330	5.911	147.79296	-.50761	-.31049	.60011
10.330	8.034	147.80229	-.55841	-.34154	1.06825
10.330	9.957	147.92157	-.50752	-.31016	1.43109
10.330	14.970	147.78133	-.50723	-.31028	1.90432
10.330	20.102	147.81864	-.50758	-.31042	1.83808
10.330	25.106	147.92444	-.50755	-.31018	1.63543
10.330	30.288	147.77314	-.50761	-.31053	1.41323
10.330	35.256	147.86047	-.55831	-.34134	1.21232
	GRADIENT	-.01676	-.00001	-.00004	.14818

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MA22 - FORCE SOURCE DATA TABULATION

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01N95 LARC CFHT 118 (MA-22)

(SJA049) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 49/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.432	148.00233	632.34615	386.23778	-1.52169
10.330	-6.339	148.13548	629.51509	384.16295	-1.56560
10.330	-4.398	148.24769	630.04538	384.19554	-1.53212
10.330	-2.377	148.34116	629.75228	383.77484	-1.42786
10.330	-.232	148.32027	631.64680	384.98359	-1.26360
10.330	1.773	148.39394	629.67875	383.59355	-1.02315
10.330	3.862	148.34289	631.20131	384.65340	-.58459
10.330	5.953	148.46731	630.84604	384.11473	-.01871
10.330	7.886	148.36527	631.07719	384.51976	.66706
10.330	9.909	148.34749	631.01512	384.52802	1.18718
10.330	15.183	148.44562	631.49454	384.56578	1.88230
10.330	20.246	148.43806	631.57350	384.63345	1.84225
10.330	25.324	148.54440	630.84604	383.91539	1.63926
10.330	30.399	148.49464	631.31969	384.33238	1.41547
10.330	35.474	148.46049	631.02643	384.24222	1.20900
	GRADIENT	.01170	.11035	.03696	.11125

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(SJA050) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 50/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-8.376	148.36731	-.76128	-.46385	-1.20773
10.330	-6.384	148.38650	-.65973	-.40192	-1.17355
10.330	-4.306	148.37693	-.60898	-.37103	-1.05481
10.330	-2.302	148.34710	-.60902	-.37113	-.89799
10.330	-.238	148.26050	-.65986	-.40234	-.63338
10.330	1.767	148.24672	-.60918	-.37147	-.29225
10.330	3.859	148.28512	-.65986	-.40227	.13212
10.330	5.946	148.39317	-.65977	-.40193	.56250
10.330	7.923	148.44275	-.65982	-.40182	1.00203
10.330	10.153	148.38576	-.65982	-.40198	1.41475
10.330	15.171	148.29547	-.65990	-.40227	1.90224
10.330	20.213	148.25125	-.65990	-.40239	1.83948
10.330	25.336	148.22871	-.65986	-.40243	1.63707
10.330	30.379	148.37357	-.71057	-.43293	1.42178
10.330	35.483	148.31046	-.65986	-.40221	1.21815
	GRADIENT	-.01389	-.00503	-.00310	.14618

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(SJA051) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 51/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.394	148.34116	157.64524	96.06996	-1.23076
10.330	-6.422	148.31491	157.61419	96.06804	-1.30183
10.330	-4.342	148.25741	157.75661	96.19214	-1.17826
10.330	-2.307	148.32601	157.48313	95.98097	-1.02309
10.330	-.258	148.38392	157.58463	96.00535	-.80343
10.330	1.805	148.30985	157.64524	96.09024	-.43922
10.330	3.774	148.27932	157.72557	96.15900	-.01800
10.330	6.014	148.32710	157.71571	96.12202	.50502
10.330	7.946	148.30037	157.46190	95.98463	.92282
10.330	9.924	148.40004	157.58463	95.99492	1.31869
10.330	15.216	148.42852	157.50282	95.92668	1.89939
10.330	20.285	148.40916	157.49297	95.93319	1.84660
10.330	25.340	148.35418	157.51266	95.98074	1.64441
10.330	30.289	148.36563	157.25886	95.81869	1.42954
10.330	35.515	148.37421	157.51266	95.96778	1.21929
	GRADIENT	.00140	.00486	.00205	.14263

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N78 LARC CFHT 11B (MA-22)

(SJA052) (12 JAN 76)

REFERENCE DATA

SREF * 2690.0000 SQ.FT. XMRP * 1076.7000 IN. XO
 LREF * 474.8000 INCHES YMRP * .0000 IN. YO
 BREF * 936.6800 INCHES ZMRP * 375.0000 IN. ZO
 SCALE * .0100

PARAMETRIC DATA

BETA * .000 T/OA * 47.500
 ELEVON * 10.000 BOFLAP * -14.250
 NO.JET * 1.000

RUN NO. 52/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.389	148.17648	157.17862	47.73388	-1.25207
10.330	-6.394	148.00466	157.30962	47.82912	-1.22134
10.330	-4.449	148.21600	157.39146	47.78577	-1.13658
10.330	-2.137	148.14386	157.22937	47.75980	-.96546
10.330	-.199	148.18560	157.18844	47.73392	-.72608
10.330	1.970	148.18625	157.28012	47.76155	-.37056
10.330	3.688	148.13749	157.39146	47.81109	-.02117
10.330	5.936	148.07264	157.51266	47.86887	.47116
10.330	7.949	148.13220	157.54373	47.85906	.94309
10.330	9.985	148.04231	157.56343	47.89411	1.36860
10.330	15.029	148.03797	157.52251	47.88307	1.89992
10.330	20.041	148.10979	157.74675	47.92798	1.84656
10.330	25.355	148.07021	157.75661	47.94379	1.63880
10.330	30.386	148.03516	157.86799	47.98900	1.42207
10.330	35.504	148.01538	157.72557	47.95212	1.21780
	GRADIENT	-.00566	.00144	.00226	.13766

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 OF POOR QUALITY

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA053) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 BDFLAP = -14.250
 NO.JET = 2.000

R/N NO. 53/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.223	148.17308	157.08693	96.47441	-1.29610
10.330	-6.512	148.12649	156.96410	96.42929	-1.27868
10.330	-4.373	148.29312	156.99523	96.34004	-1.21196
10.330	-2.337	148.19685	156.99523	96.40263	-1.10170
10.330	-.298	148.32356	157.07711	96.37051	-.87465
10.330	2.036	148.26048	156.98542	96.35523	-.53497
10.330	3.861	148.28733	156.79220	96.21921	-.13506
10.330	5.918	148.16170	156.71028	96.25048	.33748
10.330	7.933	148.39921	156.93467	96.23403	.84060
10.330	9.933	148.22184	156.90353	96.33008	1.29265
10.330	15.212	148.31464	156.94448	96.29493	1.91999
10.330	20.288	148.24914	156.85277	96.28118	1.86192
10.330	25.327	148.39817	156.77260	96.13533	1.65355
10.330	30.235	148.32278	156.80200	96.20223	1.43874
10.330	35.528	148.30712	156.53841	96.05065	1.22261
	GRADIENT	.00239	-.01972	-.01366	.13034

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MA22 - FORCE SOURCE DATA TABULATION

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01N78 LARC CFHT 118 (MA-22)

(SJA054) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 54/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/O
10.330	-8.364	148.31700	-.71057	-.21559	-1.33784
10.330	-6.490	148.39342	-.60898	-.18467	-1.35799
10.330	-4.143	148.38785	-.71057	-.21549	-1.27658
10.330	-2.336	148.33293	-.71066	-.21559	-1.17052
10.330	-.280	148.44297	-.60902	-.18462	-.95594
10.330	1.809	148.50301	-.65973	-.19991	-.64907
10.330	3.867	148.32227	-.65986	-.20020	-.24410
10.330	5.976	148.47280	-.65977	-.19997	.21785
10.330	7.843	148.14963	-.60914	-.18502	.66679
10.330	10.117	148.47681	-.60902	-.18458	1.16698
10.330	15.141	148.32390	-.65990	-.20021	1.79369
10.330	20.230	148.45165	-.60902	-.18461	1.80466
10.330	25.477	148.36673	-.65990	-.20015	1.63309
10.330	30.516	148.45046	-.60914	-.18465	1.42919
10.330	35.618	148.45098	-.71057	-.21540	1.22948
	GRADIENT	.00193	.00747	.00227	.12883

01N78 LARC CFHT 118 (MA-22)

(SJA055) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 55/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.300	148.52741	625.07604	189.38202	-1.50155
10.330	-6.417	148.52426	624.72071	189.27838	-1.57843
10.330	-4.293	148.59515	625.26333	189.35241	-1.57261
10.330	-2.273	148.51043	624.32635	189.17651	-1.48273
10.330	-.237	148.68957	624.94713	189.13647	-1.37300
10.330	1.799	148.69131	624.80657	189.09171	-1.15641
10.330	3.965	148.64493	624.68165	189.11290	-.73242
10.330	5.760	148.77672	624.45130	188.87571	-.25304
10.330	7.959	148.55957	624.96283	189.30673	.41882
10.330	10.000	148.81533	625.30242	189.08407	.94293
10.330	15.001	148.80561	625.36484	189.11530	1.77086
10.330	20.230	148.81098	624.05703	188.71300	1.81691
10.330	25.376	148.77785	625.04864	189.05494	1.64740
10.330	30.415	148.67670	625.21665	189.23442	1.44076
10.330	35.601	148.75505	625.01359	189.07332	1.23566
	GRADIENT	.01351	-.03301	-.02720	.09788

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(SJA056) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 SREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .060 T/QA = 380.000
 ELEVON = -30.000 SDFLAP = .000
 NOJET = 2.000

RUN NO. 56/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.420	148.73847	630.93623	383.46928	-1.53558
10.330	-6.380	148.75736	631.33098	383.66047	-1.58802
10.330	-4.407	148.85108	631.47198	383.50454	-1.59476
10.330	-2.077	148.98674	631.42122	383.17599	-1.54101
10.330	-.173	148.89192	630.91360	383.06033	-1.43359
10.330	1.944	149.12581	630.78397	382.38096	-1.25590
10.330	3.787	149.06832	631.13925	382.74389	-.98717
10.330	5.856	149.16257	626.93815	379.95596	-.52596
10.330	7.894	149.08448	630.62037	382.38776	.16469
10.330	10.142	149.17363	630.65979	382.18313	.86548
10.330	15.103	149.26259	628.94535	380.91701	1.72251
10.330	20.298	149.22353	628.19546	380.56242	1.80173
10.330	25.438	149.26474	628.14470	380.42662	1.64415
10.330	30.370	149.23890	629.45293	381.28493	1.44582
10.330	35.741	149.19155	630.39464	381.97656	1.23734
	GRADIENT	.02948	-.06466	-.11501	.07276

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N32 LARC CFHT 118 (MA-22)

(SJA057) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 57/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.435	147.56573	-.60906	-.60920	-1.24244
10.330	-6.474	147.54981	-.55827	-.55846	-1.21219
10.330	-4.338	147.53217	-.50752	-.50775	-1.10426
10.330	-2.322	147.72077	-.55817	-.55771	-.96031
10.330	-.186	147.57831	-.55827	-.55835	-.67255
10.330	2.001	147.69089	-.55824	-.55790	-.35321
10.330	3.901	147.60961	-.50752	-.50749	.05188
10.330	6.005	147.71367	-.50752	-.50713	.48633
10.330	7.911	147.66260	-.50755	-.50733	.93311
10.330	9.948	147.68830	-.55824	-.55791	1.29760
10.330	15.124	147.78612	-.60895	-.60818	1.88720
10.330	20.200	147.60617	-.50755	-.50753	1.86257
10.330	25.299	147.62139	-.45680	-.45673	1.66989
10.330	30.454	147.73105	-.50746	-.50701	1.45282
10.330	35.532	147.75707	-.55817	-.55758	1.24639
	GRADIENT	.00605	-.00007	-.00005	.14016

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MA22 - FORCE SOURCE DATA TABULATION

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01N32 LARC CFHT 118 (MA-22)

(SJA058) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 58/ 0 RN/L. = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.428	147.31490	97.08837	97.27627	-1.32063
10.330	-6.473	147.50494	97.07624	97.13880	-1.31565
10.330	-4.328	147.36267	97.09444	97.25081	-1.20400
10.330	-2.345	147.57319	96.91794	96.93555	-1.09788
10.330	-.302	147.44220	97.08837	97.19228	-.87843
10.330	1.787	147.48469	97.13913	97.21508	-.61309
10.330	3.983	147.53723	97.10658	97.14789	-.17517
10.330	5.853	147.50840	96.99293	97.05316	.25196
10.330	7.991	147.57466	97.08837	97.10504	.82851
10.330	9.989	147.64161	97.07624	97.04888	1.28820
10.330	15.056	147.48232	97.15734	97.23486	1.88841
10.330	20.382	147.68147	97.08837	97.03481	1.86542
10.330	25.302	147.53610	96.99900	97.04101	1.67897
10.330	30.499	147.71335	97.07624	97.00175	1.45539
10.330	35.558	147.54450	97.04369	97.08019	1.24890
	GRADIENT	.01246	.01192	.00371	.12302

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N32 LARC CFHT 118 (MA-22)

(SJA059) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 59/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.427	147.58358	192.05444	192.07581	-1.46153
10.330	-6.482	147.64881	191.98241	191.91894	-1.41205
10.330	-4.316	147.58586	191.89291	191.91129	-1.32070
10.330	-2.351	147.65555	191.67792	191.60580	-1.26987
10.330	-.291	147.71482	191.68990	191.54089	-1.08800
10.330	1.802	147.68217	191.80340	191.69668	-.81639
10.330	3.997	147.70418	191.74066	191.60542	-.35347
10.330	5.795	147.85926	191.75264	191.41641	.10035
10.330	7.869	147.71055	191.54962	191.40626	.72583
10.330	10.080	147.70804	191.49887	191.35880	1.25134
10.330	15.058	147.86962	191.58840	191.23906	1.88518
10.330	20.180	147.91589	191.37343	190.96473	1.87292
10.330	25.312	147.90181	191.36147	190.97097	1.68222
10.330	30.505	147.78028	191.38539	191.15191	1.45751
10.330	35.565	147.79472	191.20629	190.95437	1.25099
	GRADIENT	.01252	-.00829	-.02456	.11563

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MA22 - FORCE SOURCE DATA TABULATION

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OIN32 LARC CFHT 118 (MA-22)

(SJA080) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 60/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-8.452	147.71050	384.19456	393.90715	-1.64922
10.330	-6.341	147.66115	384.36812	384.20893	-1.68656
10.330	-4.168	147.81069	384.34409	383.79624	-1.62282
10.330	-2.370	147.88428	383.98883	383.25068	-1.49977
10.330	-.299	147.98745	383.76183	382.75709	-1.31783
10.330	1.777	147.95722	383.86057	382.93379	-1.02742
10.330	3.863	148.11772	384.26932	382.92617	-.63782
10.330	5.900	148.16612	383.94083	382.47384	-.12035
10.330	7.863	148.19481	383.53487	381.99546	.44854
10.330	10.057	148.16285	383.66034	382.20287	1.08480
10.330	15.019	148.08599	384.08760	382.82709	1.87418
10.330	20.341	148.11647	383.75906	382.42092	1.88098
10.330	25.389	148.13506	383.80981	382.42350	1.69234
10.330	30.462	148.27423	383.89009	382.14447	1.46882
10.330	35.543	148.19947	383.73229	382.18008	1.25763
	GRADIENT	.03395	-.01199	-.09992	.12138

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MA22 - FORCE SOURCE DATA TABULATION

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01N36 LARC CFH1 118 (MA-22)

(SJA081) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 61/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.291	147.97803	272.72363	96.20464	-1.29251
10.330	-6.521	147.95171	272.58842	96.17405	-1.27694
10.330	-4.365	147.93657	272.48692	96.14808	-1.16145
10.330	-2.272	148.02835	272.46989	96.08246	-1.03128
10.330	-.230	147.97659	272.48692	96.12208	-.80250
10.330	1.935	148.01825	272.70697	96.17263	-.48058
10.330	3.842	147.92885	272.45320	96.14120	-.08983
10.330	5.874	148.00022	272.28391	96.03513	.33713
10.330	7.908	148.05612	272.65622	96.13013	.81375
10.330	10.145	148.07562	272.72363	96.14124	1.28180
10.330	15.161	147.96634	272.70697	96.20637	1.88668
10.330	20.205	147.97752	272.25018	96.03796	1.86834
10.330	25.378	147.96886	272.60546	96.16891	1.67011
10.330	30.396	148.00743	272.58879	96.13798	1.45836
10.330	35.474	147.97140	272.58879	96.16138	1.25105
	GRADIENT	-.00105	.00874	.00376	.13036

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MA22 - FORCE SOURCE DATA TABULATION

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OIN36 LARC CFHT 110 (MA-22)

(SJA062) 12 JAN 78

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JEY = 2.000

RUN NO. 62/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.446	148.09763	544.97384	192.08703	-1.35512
10.330	-6.480	148.09112	545.97074	192.41162	-1.34266
10.330	-4.348	148.21601	544.88903	191.90374	-1.23149
10.330	-2.344	148.12593	545.36319	192.18754	-1.13729
10.330	-.253	148.06533	545.54956	192.33190	-.89920
10.330	1.823	148.11256	544.75413	191.39023	-.63830
10.330	4.001	148.21813	544.92309	191.91299	-.21144
10.330	5.787	148.25130	545.02459	191.90579	.20059
10.330	7.960	148.28036	545.63361	192.08258	.78172
10.330	9.946	148.36708	544.97384	191.73818	1.24510
10.330	15.108	148.24312	545.53290	192.09537	1.88612
10.330	20.160	148.21966	545.61697	192.15538	1.86658
10.330	25.246	148.33163	545.22760	191.87331	1.68034
10.330	30.511	148.23009	545.12681	191.96925	1.45396
10.330	35.609	148.18354	545.63443	192.20837	1.24665
GRADIENT		-.00017	-.02656	-.00914	.12206

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MA22 - FORCE SOURCE DATA TABULATION

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OIN36 LARC CFHT 118 (MA-22)

(SJA063) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 63/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.455	148.00838	733.54828	258.70981	-1.36650
10.330	-6.498	148.15048	732.64939	258.14494	-1.35828
10.330	-4.332	148.19933	733.35505	258.30841	-1.25364
10.330	-2.322	148.19928	733.59904	258.39443	-1.17583
10.330	-.237	148.30339	733.10618	258.03956	-.99202
10.330	1.980	148.33981	732.89822	257.90303	-.71105
10.330	3.881	148.40814	733.16678	257.87875	-.29750
10.330	5.847	148.32640	733.00467	257.96381	.21253
10.330	7.872	148.38282	732.18761	257.57829	.73633
10.330	10.068	148.47300	732.70014	257.60204	1.26136
10.330	15.098	148.30770	732.63452	257.86605	1.88156
10.330	20.182	148.34380	733.14709	257.89367	1.86692
10.330	25.166	148.40486	732.88834	257.78651	1.68399
10.330	30.404	148.41904	732.04532	257.46538	1.45772
10.330	35.634	148.48698	732.65434	257.56168	1.24536
	GRADIENT	.02693	-.05297	-.06551	.11449

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MA22 - FORCE SOURCE DATA TABULATION

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01N48 LARC CFHT 118 (MA-22)

(SJA064) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NOJET = 2.000

RUN NO. 64/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.313	147.86631	300.50756	96.33065	-1.29716
10.330	-6.365	147.79322	300.23499	96.29087	-1.27932
10.330	-4.193	148.02060	300.26697	96.15320	-1.17411
10.330	-2.288	147.98760	300.01320	96.09336	-1.04456
10.330	-.252	147.84219	300.30452	96.28127	-.80023
10.330	1.849	147.84506	300.32330	96.28542	-.49339
10.330	3.811	147.86956	300.25376	96.24718	-.12716
10.330	5.917	148.01213	300.24820	96.15269	.31821
10.330	7.902	147.98488	300.53954	96.26371	.80413
10.330	10.086	147.98145	300.57150	96.27618	1.27970
10.330	15.110	148.02798	299.99445	96.06114	1.88304
10.330	20.163	147.90810	300.45680	96.28717	1.86854
10.330	25.368	147.93133	300.47559	96.27807	1.67185
10.330	30.362	148.01695	300.28575	96.16158	1.45988
10.330	35.476	147.97405	299.82892	96.04313	1.25136
	GRADIENT	-.02205	.01448	.01898	.13147

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MA22 - FORCE SOURCE DATA TABULATION

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01N48 LARC CFHT 118 (MA-22)

(SJA065) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 65/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/O
10.330	-8.266	148.02808	600.05066	192.14193	-1.36127
10.330	-6.514	148.00808	600.50752	192.31680	-1.35454
10.330	-4.357	148.19764	600.39491	192.03220	-1.26920
10.330	-2.326	148.10846	599.55633	191.87945	-1.16025
10.330	-.238	148.14864	600.25371	192.05053	-.99858
10.330	1.914	148.09830	600.44353	192.17656	-.70485
10.330	3.845	148.30480	600.64867	191.97454	-.29836
10.330	5.866	148.31197	600.75017	191.99770	.21801
10.330	7.929	148.33539	599.84762	191.67898	.76391
10.330	10.118	148.24430	599.88512	191.80875	1.29828
10.330	15.100	148.43707	600.49641	191.75486	1.89760
10.330	20.209	148.42715	600.44566	191.75147	1.87473
10.330	25.310	148.34721	600.05066	191.72859	1.68122
10.330	30.307	148.26814	600.25371	191.89574	1.46691
10.330	35.577	148.38254	600.12791	191.70761	1.25007
	GRADIENT	.00963	.06792	.00925	.11589

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MA22 - FORCE SOURCE DATA TABULATION

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01N48 LARC CFHT 118 (MA-22)

(SJA068) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 66/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.373	148.36996	807.05631	257.83163	-1.48818
10.330	-6.446	148.26383	806.85266	257.95108	-1.45080
10.330	-4.461	148.45545	807.36084	257.78038	-1.45291
10.330	-2.361	148.35430	806.95418	257.82621	-1.33713
10.330	-.336	148.52342	806.24423	257.30606	-1.14682
10.330	1.775	148.48549	807.36027	257.72805	-.85020
10.330	3.739	148.47895	807.56332	257.80423	-.41535
10.330	5.830	148.65033	807.66537	257.53954	.12619
10.330	7.878	148.59572	806.29464	257.19695	.69936
10.330	10.054	148.65622	806.54876	257.17330	1.24240
10.330	15.032	148.63332	807.36056	257.47181	1.90379
10.330	20.169	148.68495	807.36113	257.38258	1.88281
10.330	25.301	148.57471	806.29428	257.23320	1.68847
10.330	30.347	148.71219	806.64961	257.10865	1.46985
10.330	35.441	148.64928	807.35970	257.44389	1.25886
	GRADIENT	.00863	.03928	-.00244	.12450

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MA22 - FORCE SOURCE DATA TABULATION

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01N44 LARC CFHT 118 (MA-22)

(SJA087) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 67/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.284	148.27800	290.21747	95.90538	-1.30188
10.330	-6.329	148.35079	290.52200	95.95889	-1.26913
10.330	-4.366	148.16496	290.55833	96.09126	-1.16784
10.330	-2.313	148.20375	290.20300	95.94863	-1.02256
10.330	-.231	148.27524	290.38789	95.96347	-.79088
10.330	1.981	148.29133	290.31898	95.93029	-.45768
10.330	3.862	148.40679	290.40234	95.88318	-.10207
10.330	5.899	148.37748	290.40234	95.90212	.33582
10.330	7.978	148.36011	290.11596	95.81676	.82237
10.330	9.970	148.36697	290.40604	95.91013	1.25457
10.330	15.113	148.35571	290.21747	95.85513	1.89136
10.330	20.263	148.38339	290.14858	95.81450	1.86591
10.330	25.410	148.26595	290.06885	95.86404	1.67392
10.330	30.463	148.28831	290.11961	95.86636	1.45639
10.330	35.633	148.27625	290.22114	95.90771	1.24601
	GRADIENT	.02738	-.00956	-.02088	.12977

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MA22 - FORCE SOURCE DATA TABULATION

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01N44 LARC CFHT 118 (1A-22)

(SJA088) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 68/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.392	148.02878	581.50834	192.48898	-1.35989
10.330	-6.471	148.07256	581.18933	192.32650	-1.34959
10.330	-4.317	148.09114	581.33412	192.35027	-1.24557
10.330	-2.109	148.13441	581.77655	192.44044	-1.15432
10.330	-.267	148.17569	581.20375	192.19741	-.96134
10.330	1.794	148.16015	580.89917	192.11683	-.70392
10.330	3.800	148.30764	581.19627	192.02394	-.27648
10.330	5.892	148.29372	581.45004	192.12581	.21778
10.330	7.898	148.21783	580.82654	192.01806	.77393
10.330	10.071	148.37022	581.13108	191.92141	1.28560
10.330	15.086	148.39265	581.39929	191.98097	1.89693
10.330	20.240	148.31360	581.60987	192.15287	1.87334
10.330	25.153	148.28123	581.67503	192.21634	1.68905
10.330	30.347	148.24194	581.15299	192.09474	1.46374
10.330	35.646	148.22548	581.64624	192.27912	1.24777
	GRADIENT	.02276	-.05570	-.04794	.11832

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MA22 - FORCE SOURCE DATA TABULATION

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01N44 LARC CFHT 118 (MA-22)

(SJA069) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 69/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.247	148.17639	781.52081	258.43874	-1.45708
10.330	-6.508	148.27083	781.62234	258.30768	-1.43319
10.330	-4.335	148.28670	780.20292	257.81100	-1.33241
10.330	-2.177	148.52686	780.20490	257.39479	-1.28737
10.330	-.212	148.41279	780.76129	257.77632	-1.07153
10.330	1.991	148.40351	781.01510	257.87624	-.73927
10.330	3.760	148.51272	781.37425	257.80511	-.36562
10.330	5.909	148.46846	780.96434	257.74667	.19082
10.330	7.921	148.54160	781.72387	257.87032	.73301
10.330	10.103	148.58759	781.67311	257.77376	1.26501
10.330	15.073	148.67227	780.96821	257.39462	1.89729
10.330	20.209	148.70284	781.22007	257.42469	1.87908
10.330	25.287	148.55729	781.57537	257.79410	1.68609
10.330	30.371	148.66201	781.62613	257.62923	1.46566
10.330	35.506	148.58253	780.65977	257.44836	1.25483
	GRADIENT	.01617	.15410	.02278	.12114

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MA22 - FORCE SOURCE DATA TABULATION

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01N78 LARC CFHT 118 (MA-22)

(SJA070) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 47.500
 ELEVON = .000 BDFLAP = .000
 NOJET = 1.000

RUN NO. 70/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.311	148.17457	156.36659	47.48788	-1.28044
10.330	-6.368	148.10899	156.49744	47.54866	-1.24579
10.330	-4.170	148.25574	156.50722	47.50457	-1.13773
10.330	-2.348	148.15536	156.53841	47.54623	-1.05249
10.330	-.251	148.22018	156.36659	47.47327	-.79391
10.330	1.748	148.12016	156.54820	47.56050	-.46920
10.330	3.963	148.21998	156.49744	47.51306	-.05808
10.330	5.837	148.07238	156.49744	47.56042	.35283
10.330	7.884	148.11457	156.38614	47.51306	.82780
10.330	10.052	148.27396	156.31583	47.44064	1.28454
10.330	15.092	148.26348	156.53841	47.51155	1.89137
10.330	20.285	148.16650	156.49744	47.53021	1.86400
10.330	25.435	148.09110	156.45646	47.54196	1.67013
10.330	30.503	148.17519	156.43689	47.50903	1.45309
10.330	35.576	148.23950	156.42712	47.48546	1.24706
	GRADIENT	-.00480	-.00052	.00138	.13545

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MA22 - FORCE SOURCE DATA TABULATION

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01N78 LARC CFHT 118 (MA-22)

(SJA071) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 71/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.385	147.95708	312.25297	94.96932	-1.32482
10.330	-6.441	148.02514	312.35062	94.95534	-1.30814
10.330	-4.408	148.10256	311.73762	94.71945	-1.20603
10.330	-2.332	148.10142	312.13193	94.83999	-1.12312
10.330	-.238	148.21657	312.34668	94.83150	-.92594
10.330	1.770	148.10881	312.43650	94.92779	-.63224
10.330	4.035	148.14919	311.89762	94.73823	-.19649
10.330	5.901	148.19434	312.02264	94.74733	.23726
10.330	7.935	148.28061	312.36621	94.79648	.77623
10.330	10.126	148.20258	312.28421	94.82149	1.28993
10.330	15.116	148.24863	311.99139	94.70315	1.89291
10.330	20.281	148.13131	311.89762	94.74967	1.86896
10.330	25.394	148.25677	311.90938	94.67306	1.67542
10.330	30.526	148.21162	312.18269	94.78488	1.45321
10.330	35.601	148.22207	312.25297	94.79953	1.24827
	GRADIENT	.00485	.02848	.00555	.11995

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MA22 - FORCE SOURCE DATA TABULATION

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01N78 LARC CFHT 118 (MA-22)

(SJA072) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 72/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.362	148.24754	625.34151	189.82013	-1.45660
10.330	-6.416	148.19263	625.06436	189.80630	-1.41237
10.330	-4.452	148.25467	625.83746	189.96154	-1.41809
10.330	-2.342	148.34821	625.45469	189.72565	-1.30680
10.330	-.246	148.24502	624.66995	189.61950	-1.13464
10.330	2.001	148.33177	624.91206	189.58206	-.82273
10.330	3.884	148.30243	625.18924	189.70367	-.40904
10.330	5.782	148.45642	624.99789	189.44889	.08049
10.330	7.917	148.58600	625.09940	189.33991	.70357
10.330	9.947	148.41337	625.52124	189.66253	1.19748
10.330	15.106	148.46132	624.87299	189.40478	1.89720
10.330	20.336	148.42925	624.46690	189.32259	1.87361
10.330	25.322	148.47220	625.82583	189.67970	1.68488
10.330	30.509	148.51039	624.74411	189.30315	1.45891
10.330	35.417	148.57420	624.14679	189.04093	1.25802
	GRADIENT	.00388	-.08843	-.03180	.11863

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(SJA073) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 73/ 0 RN/L * .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.356	148.27769	157.41114	95.96836	-1.30258
10.330	-6.403	148.40800	157.58463	95.98977	-1.34390
10.330	-4.196	148.38894	157.49297	95.94626	-1.24639
10.330	-2.339	148.27869	157.57328	95.06656	-1.10996
10.330	-.236	148.40855	157.28995	95.80992	-.90718
10.330	1.966	148.45687	157.23920	95.74783	-.50018
10.330	3.716	148.44126	157.26869	95.77586	-.13091
10.330	5.851	148.44990	157.44222	95.87596	.32600
10.330	8.055	148.42808	157.35054	95.83422	.81275
10.330	10.050	148.49806	157.53388	95.90066	1.22208
10.330	15.036	148.52123	157.31945	95.75519	1.87036
10.330	20.110	148.55266	157.23920	95.68609	1.86826
10.330	25.381	148.49967	157.34071	95.78203	1.67557
10.330	30.430	148.49067	157.38162	95.81274	1.45688
10.330	35.574	148.45002	157.04599	95.63459	1.24886
	GRADIENT	.01449	-.03951	-.03343	.14104

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(SJA074) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NOJET = 2.000

RUN NO. 74/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.440	148.45515	630.68246	384.04658	-1.57620
10.330	-6.462	148.46859	630.83472	384.10453	-1.62023
10.330	-4.481	148.61830	630.31582	383.40197	-1.60908
10.330	-2.327	148.64687	630.36658	383.35915	-1.51527
10.330	-.267	148.61625	630.74999	383.67136	-1.39140
10.330	1.812	148.77937	630.46809	383.07942	-1.15050
10.330	3.781	148.85199	630.01127	382.61509	-.83605
10.330	5.843	148.90675	629.61660	382.23479	-.26618
10.330	7.926	148.88273	630.46809	382.81347	.42602
10.330	9.924	149.05773	630.53019	382.40170	.97817
10.330	14.985	148.90504	630.09005	382.52660	1.83259
10.330	20.356	148.97549	629.62800	382.06533	1.85224
10.330	25.418	148.99546	630.49617	382.54087	1.67191
10.330	30.500	148.98280	630.72188	382.71033	1.45528
10.330	35.448	149.12239	630.64303	382.30428	1.25440
	GRADIENT	.02890	-.02367	-.08883	.09214

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(SJA075) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVEN = .000 SDFLAP = .000
 NO.JET = 2.000

RUN NO. 75/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.386	148.07207	312.69030	190.90165	-1.38958
10.330	-6.391	148.07329	312.30374	190.66408	-1.39558
10.330	-4.200	148.11796	312.45603	190.69953	-1.34290
10.330	-2.325	148.31337	311.87039	190.09131	-1.26333
10.330	-.253	148.20448	312.06166	190.34764	-1.08824
10.330	1.832	148.28807	312.53016	190.52595	-.80084
10.330	3.801	148.29798	311.92114	190.14198	-.35882
10.330	5.678	148.29192	311.96789	190.17825	.11271
10.330	7.937	148.32355	312.31545	190.34952	.67348
10.330	9.950	148.32229	312.36621	190.38207	1.15475
10.330	14.925	148.37732	312.11242	190.15684	1.85491
10.330	20.359	148.31581	311.84686	190.07384	1.85919
10.330	25.400	148.26653	311.99915	190.20421	1.67353
10.330	30.467	148.37288	311.90938	190.03882	1.45427
10.330	35.579	148.33162	311.99915	190.14640	1.24831
	GRADIENT	.01634	-.01884	-.03251	.12079

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MA22 - FORCE SOURCE DATA TABULATION

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01N33 LARC CFHT 118 (MA-22)

(SJA078) (12 JAN 78)

REFERENCE DATA

SREF * 2690.0000 SQ.FT. XMRP * 1076.7000 IN. XO
 LREF * 474.8000 INCHES YMRP * .0000 IN. YO
 BREF * 936.6800 INCHES ZMRP * 375.0000 IN. ZO
 SCALE * .0100

PARAMETRIC DATA

BETA * .000 T/QA * .000
 ELEVON * .000 BDFLAP * .000
 NO.JET * 2.000

RUN NO. 76/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.381	148.37529	-.45674	-.48760	-1.25298
10.330	-6.416	148.40141	-.45674	-.48751	-1.21268
10.330	-4.365	148.35742	-.40602	-.43350	-1.09617
10.330	-2.316	148.38516	-.45674	-.48757	-.95198
10.330	-.287	148.29868	-.40604	-.43370	-.71270
10.330	1.816	148.33540	-.45677	-.48776	-.37361
10.330	3.817	148.33800	-.40602	-.43356	.02086
10.330	5.831	148.24033	-.45682	-.48813	.45401
10.330	7.893	148.41307	-.45671	-.48744	.92673
10.330	10.080	148.39326	-.40596	-.43334	1.33955
10.330	15.134	148.21860	-.40604	-.43393	1.88184
10.330	20.231	148.22131	-.45677	-.48814	1.86274
10.330	25.310	148.30410	-.45674	-.48783	1.67226
10.330	30.432	148.12270	-.45677	-.48846	1.45196
10.330	35.655	148.18463	-.40602	-.43401	1.23993
	GRADIENT	-.00430	-.00004	-.00006	.13720

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MA22 - FORCE SOURCE DATA TABULATION

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01N33 LARC CFHT 118 (MA-22)

(SJA077) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 77/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.266	147.73773	89.78010	96.25955	-1.27295
10.330	-6.450	147.81931	89.83647	96.26683	-1.32677
10.330	-4.384	147.94977	89.71253	96.04925	-1.22433
10.330	-2.286	147.80997	89.67860	96.10373	-1.06726
10.330	-.304	147.90473	89.76888	96.13885	-.76286
10.330	1.801	147.89372	89.67299	96.04330	-.47596
10.330	4.043	147.81216	89.67860	96.10231	-.00234
10.330	5.803	148.02029	89.71813	96.00948	.39969
10.330	8.028	147.87701	89.72935	96.11453	.91349
10.330	10.089	147.97991	89.77449	96.09601	1.30619
10.330	15.121	147.87452	89.63345	96.01342	1.88185
10.330	20.196	147.88839	89.73496	96.11314	1.88070
10.330	25.404	147.85200	89.65587	96.05206	1.67753
10.330	30.421	148.05153	89.61664	95.88064	1.45848
10.330	35.495	147.99541	89.62224	95.92299	1.25222
	GRADIENT	-.00934	-.00364	.00217	.14529

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MA22 - FORCE SOURCE DATA TABULATION

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01N33 LARC CFMT 118 (MA-22)

(SJA078) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 78/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.407	147.69043	179.39673	192.40544	-1.37762
10.330	-6.407	147.84595	179.39673	192.20304	-1.36661
10.330	-4.350	147.83515	179.33477	192.15070	-1.27228
10.330	-2.280	147.87674	179.34598	192.10866	-1.12130
10.330	-.247	147.89006	179.65048	192.41750	-.90009
10.330	1.850	147.89236	179.76321	192.53525	-.58039
10.330	3.847	147.97019	179.76321	192.43398	-.14885
10.330	5.853	147.91179	179.66170	192.40125	.31409
10.330	8.079	147.91302	179.41916	192.13991	.86145
10.330	9.836	148.06191	179.39673	191.92270	1.20790
10.330	15.108	147.93011	179.52067	192.22641	1.87465
10.330	20.255	148.08550	179.14299	191.62071	1.87209
10.330	25.395	148.10790	179.28403	191.74257	1.67845
10.330	30.391	148.10537	179.33477	191.80012	1.46094
10.330	35.499	147.93041	179.23855	191.92393	1.25368
	GRADIENT	.01389	.06212	.04847	.13573

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MA22 - FORCE SOURCE DATA TABULATION

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01N33 LARC CFHT 118 (MA-22)

(SJA079) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 79/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.353	148.45002	359.58297	383.68430	-1.45394
10.330	-6.369	148.44564	359.22191	383.31034	-1.47316
10.330	-4.172	148.55150	359.14870	382.95913	-1.42469
10.330	-2.391	148.59429	358.58455	382.24747	-1.38679
10.330	-.228	148.72039	358.87253	382.23009	-1.19044
10.330	1.966	148.58562	359.26682	382.99711	-.91843
10.330	3.700	148.66606	359.62213	383.16846	-.56917
10.330	5.925	148.69402	359.17115	382.61599	.00154
10.330	7.937	148.86054	358.92328	381.92423	.65026
10.330	10.075	148.72096	359.72364	383.13512	1.18491
10.330	15.062	148.77611	358.81000	382.02036	1.25154
10.330	20.434	148.80488	358.73681	381.86859	1.87638
10.330	25.376	148.86002	359.44738	382.48325	1.68234
10.330	30.378	148.90718	359.44738	382.36211	1.46592
10.330	35.637	148.98713	358.99646	381.67752	1.25047
	GRADIENT	.01065	.08251	.06049	.10832

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N37 LARC CFHT 118 (MA-22)

(SJA080) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 80/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.447	147.84337	237.46811	96.37284	-1.25014
10.330	-8.436	147.86828	237.46189	96.35409	-1.21843
10.330	-4.314	147.87893	237.19325	96.23815	-1.12724
10.330	-2.321	147.89658	237.39629	96.30904	-.94332
10.330	-.282	147.93405	237.17843	96.19628	-.69903
10.330	1.827	147.93352	237.30961	96.24983	-.39793
10.330	3.816	148.03144	237.35177	96.20325	-.05332
10.330	5.783	147.91896	237.39629	96.29447	.42544
10.330	8.087	148.04516	237.40252	96.21490	.94931
10.330	10.047	147.91394	237.19325	96.21537	1.34585
10.330	15.098	147.92853	237.43220	96.30280	1.86998
10.330	20.228	148.02496	237.14878	96.12519	1.87278
10.330	25.374	148.07782	237.09803	96.07031	1.67816
10.330	30.438	147.92764	237.19325	96.20646	1.45977
10.330	35.458	147.88294	237.30961	96.28275	1.25418
	GRADIENT	.01672	.01125	-.00632	.13201

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MA22 - FORCE SOURCE DATA TABULATION

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01N37 LARC CFHT 118 (MA-22)

(SJA081) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 81/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.282	147.89910	475.26178	192.80514	-1.26553
10.330	-6.487	147.81161	474.84333	192.74940	-1.33385
10.330	-4.355	147.90532	474.30610	192.40935	-1.22338
10.330	-2.345	147.83871	474.33575	192.50807	-1.01778
10.330	-.304	148.03285	474.70354	192.40467	-.75327
10.330	1.777	147.99658	473.61667	192.01119	-.46499
10.330	4.034	147.85799	474.31464	192.47441	.00793
10.330	5.764	147.92794	474.46693	192.44515	.39214
10.330	8.007	147.96164	474.64030	192.47163	.90140
10.330	10.079	147.96025	474.72073	192.50605	1.29422
10.330	15.259	148.00564	474.50055	192.35775	1.88850
10.330	20.412	147.97306	474.59812	192.43967	1.87394
10.330	25.332	147.90871	474.21312	192.36721	1.68266
10.330	30.362	148.08251	474.37795	192.20823	1.46353
10.330	35.669	147.99849	474.03120	192.17677	1.24685
	GRADIENT	.00260	-.03299	-.01675	.14474

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MA22 - FORCE SOURCE DATA TABULATION

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01N37 LARC CFMT 118 (MA-22)

(SJA082) (12 JAN 78)

REFERENCE DATA

SREF * 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 82/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.248	147.88983	638.65100	259.10544	-1.28685
10.330	-6.447	147.96402	637.60694	258.55215	-1.35472
10.330	-4.313	147.81597	638.48790	259.16870	-1.23769
10.330	-2.300	147.84862	638.37553	259.06587	-1.06615
10.330	-.285	147.92125	638.32477	258.91808	-.81238
10.330	1.830	148.02926	638.45883	258.78349	-.48094
10.330	3.829	148.12130	638.49874	258.63886	-.10719
10.330	5.793	148.17168	638.50958	258.55531	.33611
10.330	8.039	147.96337	637.87880	258.66353	.90030
10.330	9.894	148.19281	637.44378	258.08692	1.23187
10.330	15.113	148.22297	638.30657	258.38366	1.87870
10.330	20.218	148.16372	637.73741	258.25650	1.87783
10.330	25.372	148.09698	638.18335	258.55355	1.67898
10.330	30.450	148.28310	638.30657	258.27888	1.46030
10.330	35.523	148.25293	638.35732	258.35199	1.25255
	GRADIENT	.03880	.00529	-.06575	.13949

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MA22 - FORCE SOURCE DATA TABULATION

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01N61 LARC CFHT 118 (MA-22)

(SJA083) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 83/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.391	147.79196	320.94435	95.98452	-1.26503
10.330	-6.384	147.81289	321.14738	96.03164	-1.30879
10.330	-4.147	147.87696	321.12731	95.98403	-1.20887
10.330	-2.337	147.84166	321.23830	96.04013	-1.06106
10.330	-.276	147.93839	321.25949	95.98367	-.74141
10.330	1.795	148.01163	320.85347	95.81492	-.46128
10.330	3.810	147.81724	320.98448	95.98010	-.04683
10.330	5.795	147.86443	320.86289	95.91312	.41935
10.330	8.047	148.00606	321.20874	95.92463	.93177
10.330	9.891	148.06491	321.12731	95.86219	1.25481
10.330	15.064	148.07231	320.59971	95.69991	1.87424
10.330	20.189	148.00448	321.04587	95.87701	1.87877
10.330	25.350	147.93523	321.23830	95.97939	1.68145
10.330	30.351	147.98894	321.31974	95.96888	1.46390
10.330	35.594	147.97346	321.16746	95.93343	1.24976
	GRADIENT	.00256	-.03411	-.01185	.14620

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MA22 - FORCE SOURCE DATA TABULATION

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01N61 LARC CFHT 118 (MA-22)

(SJA084) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .9000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 001 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.379	148.09904	645.20883	192.56189	-1.28825
10.330	-6.407	148.15845	644.79237	192.38043	-1.36212
10.330	-4.310	148.01538	644.76102	192.53699	-1.27163
10.330	-2.311	148.09942	645.04614	192.51283	-1.11844
10.330	-.245	148.25705	644.23406	192.06605	-.93277
10.330	1.820	148.21438	644.54905	192.21527	-.56135
10.330	4.057	148.15824	644.51768	192.27874	-.05940
10.330	5.977	148.08033	644.35490	192.33132	.35144
10.330	8.040	148.23313	644.57868	192.19986	.84146
10.330	9.861	148.34018	644.70131	192.08727	1.19297
10.330	15.022	148.32453	643.73702	191.83055	1.86464
10.330	20.170	148.37559	643.82802	191.79164	1.87431
10.330	25.500	148.34586	644.42661	192.00740	1.68156
10.330	30.331	148.34542	644.43708	192.01212	1.46329
10.330	35.573	148.38591	643.47273	191.67247	1.25002
	GRADIENT	.01884	-.04686	-.03845	.14261

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MA22 - FORCE SOURCE DATA TABULATION

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01N61 LARC CFHT 118 (MA-22)

(SJA085) (12 JAN 78)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.6000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = .000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 85/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.282	148.14559	866.34503	258.47850	-1.38551
10.330	-6.499	148.20983	866.33823	258.36444	-1.38338
10.330	-4.361	148.28075	864.96453	257.83139	-1.32713
10.330	-2.325	148.34144	866.08416	258.05960	-1.20717
10.330	-.274	148.40696	866.23333	257.99001	-1.03440
10.330	1.800	148.23977	865.28238	257.99743	-.70087
10.330	3.822	148.29355	866.14199	258.16008	-.13625
10.330	5.821	148.34191	865.83405	257.98417	.21821
10.330	8.045	148.32704	866.29767	258.14819	.78738
10.330	9.857	148.51531	866.49391	257.87934	1.18351
10.330	15.049	148.44546	865.27571	257.63797	1.85975
10.330	20.193	148.40448	866.29427	258.01247	1.86831
10.330	25.293	148.42991	866.67699	258.08223	1.68102
10.330	30.503	148.52043	865.88144	257.68918	1.45535
10.330	35.529	148.51080	866.24351	257.81265	1.25145
	GRADIENT	-.00376	.07527	.02898	.14090

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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Q1N84 LARC CFHT 118 (MA-22)

(SJA086) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 86/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.431	148.12376	-.65982	-.39467	-1.24335
10.330	-6.425	147.98325	-.71070	-.42551	-1.20747
10.330	-4.436	147.99443	-.65994	-.39509	-1.11052
10.330	-2.328	148.13999	-.65982	-.39463	-.96249
10.330	-.273	147.97947	-.71070	-.42552	-.69922
10.330	1.775	148.02326	-.76142	-.45575	-.38332
10.330	3.787	148.13096	-.65982	-.39465	.01143
10.330	5.768	148.05897	-.65998	-.39494	.45070
10.330	8.009	148.13963	-.65982	-.39463	.95725
10.330	9.837	148.05212	-.71070	-.42531	1.29333
10.330	15.050	148.13963	-.60906	-.36427	1.88343
10.330	20.183	148.09342	-.60914	-.36443	1.86894
10.330	25.307	148.23009	-.71057	-.42472	1.67586
10.330	30.307	148.09362	-.65986	-.39477	1.46235
10.330	35.532	148.14362	-.65982	-.39462	1.24993
	GRADIENT	.00760	-.00500	-.00297	.13719

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DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N84 LARC CFHT 118 (MA-22)

(SJA087) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 87/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.264	148.17008	160.39604	95.91065	-1.42791
10.330	-6.504	148.13847	160.36533	95.91275	-1.46314
10.330	-4.384	148.24094	160.50759	95.93147	-1.40282
10.330	-2.333	148.33335	160.19300	95.68381	-1.31753
10.330	-.328	148.31276	160.33526	95.78207	-1.12629
10.330	1.728	148.39085	160.42674	95.78629	-.86878
10.330	4.014	148.30656	160.40606	95.82837	-.42203
10.330	5.756	148.46610	160.29452	95.65883	.02992
10.330	7.978	148.35543	160.26380	95.71185	.72654
10.330	9.820	148.49444	160.48752	95.75573	1.14787
10.330	14.975	148.37560	160.44680	95.80811	1.85993
10.330	20.266	148.46835	160.30454	95.66336	1.87086
10.330	25.334	148.42226	160.38601	95.74170	1.68176
10.330	30.314	148.49204	160.39604	95.70270	1.46611
10.330	35.579	148.43943	160.20302	95.62141	1.25006
	GRADIENT	.00878	.00158	-.00473	.11622

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N84 LARC CFHT 118 (MA-22)

(SJA088) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 88/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q (PSF)	PCRC	T/OA	L/D
10.330	-8.268	148.29342	320.80272	191.66811	-1.61765
10.330	-6.480	148.11815	321.41174	191.87060	-1.66974
10.330	-4.374	148.40623	320.99511	191.63728	-1.61411
10.330	-2.336	148.43577	321.19814	191.72033	-1.52652
10.330	-.333	148.52884	321.29966	191.66076	-1.42744
10.330	1.738	148.47431	320.91365	191.50080	-1.18629
10.330	4.031	148.49295	320.90302	191.47041	-.74190
10.330	5.818	148.65605	320.65985	191.11541	-.24177
10.330	7.885	148.67529	321.04587	191.32072	.43516
10.330	9.920	148.70850	321.02580	191.26603	1.01676
10.330	15.105	148.77698	321.05648	191.19627	1.84299
10.330	20.240	148.80975	320.65047	190.91243	1.86724
10.330	25.369	148.71784	320.99511	191.23574	1.68715
10.330	30.401	148.73930	320.65985	191.00844	1.46575
10.330	35.596	148.86156	320.89359	190.99068	1.25262
	GRADIENT	.01000	-.02299	-.02662	.10067

DATE 13 APR 78

MA22 - FORCE SOURCE DATA TABULATION

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01N84 LARC CFHT 118 (MA-22)

(SJA089) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 89/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.276	148.06301	431.16744	258.00795	-1.76220
10.330	-6.329	148.26218	431.44504	257.82725	-1.80487
10.330	-4.173	148.37780	430.68366	257.17170	-1.74220
10.330	-2.338	148.35247	430.91363	257.35295	-1.66271
10.330	-.289	148.56062	431.87486	257.56554	-1.60226
10.330	1.775	148.54921	431.57353	257.40570	-1.39471
10.330	3.763	148.62328	431.72582	257.36820	-1.01566
10.330	5.791	148.54860	431.27213	257.22699	-.51387
10.330	7.860	148.75307	431.26896	256.87153	.18819
10.330	10.120	148.70740	431.49579	257.08557	.95888
10.330	15.083	148.78869	431.32290	256.84216	1.82240
10.330	20.253	148.89718	430.96127	256.43983	1.87217
10.330	25.362	148.86808	431.54975	256.84019	1.68882
10.330	30.481	148.87926	431.19440	256.60944	1.46608
10.330	35.472	149.05503	430.65674	255.98724	1.25999
	GRADIENT	.03452	.13679	.02180	.08637

01N84 LARC CFHT 118 (MA-22)

(SJA090) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 90/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.480	147.84913	-.65986	-.39543	-1.24992
10.330	-.228	147.70378	-.71070	-.42631	-.72056
10.330	9.983	147.69052	-.65990	-.39588	1.32273
10.330	20.416	147.72274	-.71062	-.42621	1.85896
10.330	35.560	147.65921	-.71066	-.42642	1.24686
	GRADIENT	.00000	.00000	.00000	.00000

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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OIN84 LARC CFHT 118 (MA-22)

(SJA091) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 91/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.352	147.67970	-.60918	-.36548	-1.23918
10.330	-.214	147.71263	-.71075	-.42632	-.67270
10.330	9.953	147.83922	-.60914	-.36506	1.38880
10.330	20.103	147.77630	-.71062	-.42606	1.88212
10.330	35.590	147.66508	-.71070	-.42642	1.24695
	GRADIENT	.00000	.00000	.00000	.00000

OIN84 LARC CFHT 118 (MA-22)

(SJA092) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 92/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.356	147.78465	-.60910	-.36517	-1.24942
10.330	-.243	147.83836	-.65986	-.39546	-.72712
10.330	9.837	147.79404	-.65998	-.39568	1.32545
10.330	20.228	147.81511	-.60918	-.36514	1.86767
10.330	35.629	147.82592	-.60910	-.36507	1.24406
	GRADIENT	.00000	.00000	.00000	.00000

01N84 LARC CFHT 118 (MA-22)

(SJA093) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = .000 T/OA = 95.000
 ELEVON = .000 SDFLAP = .000
 NO.JET = 2.000

RUN NO. 93/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.392	147.88290	161.02527	96.47389	-1.41204
10.330	-.225	147.90057	160.81216	96.33470	-1.12473
10.330	9.819	148.16224	160.58903	96.03113	1.14869
10.330	20.257	148.08155	160.58903	96.08346	1.86721
10.330	35.564	148.05825	160.40606	95.98909	1.24899
	GRADIENT	.00000	.00000	.00000	.00000

01N84 LARC CFHT 118 (MA-22)

(SJA094) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = -3.000 T/OA = 95.000
 ELEVON = .000 SDFLAP = .000
 NO.JET = 2.000

RUN NO. 94/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.407	148.05489	160.62920	96.12480	-1.38018
10.330	-.290	148.02070	160.50759	96.07421	-1.10969
10.330	9.887	148.15673	160.49755	95.98000	1.17773
10.330	20.082	147.98844	160.41609	96.04037	1.87511
10.330	35.595	148.00918	160.46686	96.05731	1.24815
	GRADIENT	.00000	.00000	.00000	.00000

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01NB4 LARC CFHT 118 (MA-22)

(SJA095) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 95/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.396	148.20700	160.48752	95.94145	-1.44418
10.330	-.167	148.09436	160.51762	96.03243	-1.01303
10.330	10.058	148.16453	160.35530	95.88988	1.28676
10.330	20.466	148.11830	160.47689	95.99254	1.86948
10.330	35.522	148.25625	160.44680	95.88524	1.25257
	GRADIENT	.00000	.00000	.00000	.00000

01NB4 LARC CFHT 118 (MA-22)

(SJA096) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 96/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.508	148.01556	321.64442	192.53175	-1.54177
10.330	-.282	148.17446	321.64442	192.32528	-1.42223
10.330	10.136	148.28899	321.20762	191.91576	1.08156
10.330	20.177	148.36043	321.29968	191.87831	1.86326
10.330	35.678	148.56894	321.43184	191.68785	1.24812
	GRADIENT	.00000	.00000	.00000	.00000

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01N84 LARC CFHT 118 (MA-22)

(SJA097) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 97/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.422	148.65727	321.44138	191.57962	-1.49299
10.330	-.299	148.61097	321.21822	191.50628	-1.38704
10.330	10.048	148.55880	321.28907	191.61578	1.03151
10.330	20.230	148.62412	321.02580	191.37462	1.87045
10.330	35.743	148.43746	320.71061	191.42715	1.24605
	GRADIENT	.00000	.00000	.00000	.00000

01N84 LARC CFHT 118 (MA-22)

(SJA098) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 98/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.411	148.77218	321.63486	191.54688	-1.62364
10.330	-.261	148.61290	321.62431	191.74589	-1.22823
10.330	9.930	148.78917	321.52279	191.45828	1.14933
10.330	20.091	148.70650	321.21822	191.39325	1.87695
10.330	35.516	148.82741	321.45193	191.36690	1.25564
	GRADIENT	.00000	.00000	.00000	.00000

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01N84 LARC CFHT 118 (MA-22)

(SJA099) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 99/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.369	148.36898	432.15565	258.06601	-1.71999
10.330	-.252	148.37427	431.72582	257.80013	-1.59740
10.330	10.003	148.46694	432.08115	257.85127	.92710
10.330	20.036	148.52288	431.57353	257.45134	1.87233
10.330	35.488	148.63947	431.32290	257.10001	1.25768
	GRADIENT	.00000	.00000	.00000	.00000

01N84 LARC CFHT 118 (MA-22)

(SJA100) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 255.400
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 100/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.485	148.94170	432.18595	257.09170	-1.60983
10.330	-.199	148.99351	431.69883	256.71263	-1.51471
10.330	9.831	148.96053	430.88670	256.28642	.83611
10.330	20.075	148.91644	431.47201	256.71054	1.87599
10.330	35.536	148.77849	431.88134	257.19233	1.25534
	GRADIENT	.00000	.00000	.00000	.00000

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01N84 LARC CFHT 118 (MA-22)

(SJA101) (12 JAN 78)

REFERENCE DATA

SPCF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 101/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.496	149.06799	431.62429	256.54006	-1.74601
10.330	-.224	149.16772	432.20969	256.71625	-1.33383
10.330	9.959	149.27000	431.34352	256.02623	1.04912
10.330	20.410	149.25570	431.49579	256.14114	1.87737
10.330	35.540	149.34290	432.23343	256.42937	1.25715
	GRADIENT	.00000	.00000	.00000	.00000

01N85N50 LARC CFHT 118 (MA-22)

(SJA102) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 102/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.389	148.53476	-.05075	-.02952	-1.24680
10.330	-.149	148.38882	.00000	.00000	-.69361
10.330	9.991	148.33827	-.05075	-.02956	1.34717
10.330	20.437	148.28920	.00000	.00000	1.85844
10.330	35.725	148.18809	.00000	.00000	1.24153
	GRADIENT	.00000	.00000	.00000	.00000

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01N85N50 LARC CFHT 118 (MA-22)

(SJA103) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 103/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.397	148.04728	.00000	.00000	-1.23156
10.330	-.264	148.08094	.00000	.00000	-.67829
10.330	10.076	148.04817	-.05074	-.02961	1.41800
10.330	20.123	148.06052	-.05075	-.02961	1.88413
10.330	35.768	148.15292	.00000	.00000	1.24010
	GRADIENT	.00000	.00000	.00000	.00000

01N85N50 LARC CFHT 118 (MA-22)

(SJA104) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 104/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.381	148.04407	.00000	.00000	-1.25213
10.330	-.228	147.96633	.00000	.00000	-.70708
10.330	10.023	148.02278	.00000	.00000	1.37056
10.330	20.270	147.99017	.00000	.00000	1.86933
10.330	35.644	148.04684	.00000	.00000	1.24363
	GRADIENT	.00000	.00000	.00000	.00000

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01N85N50 LARC CFHT 118 (MA-22)

(SJA105) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 105/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.424	147.68692	164.98409	96.51921	-1.44066
10.330	-.193	147.75905	164.82155	96.37705	-1.21609
10.330	10.038	147.76039	164.73035	96.32285	1.22691
10.330	20.208	147.81990	164.66931	96.24839	1.92699
10.330	35.719	147.87002	164.66931	96.21577	1.26069
	GRADIENT	.00000	.00000	.00000	.00000

01N85N50 LARC CFHT 118 (MA-22)

(SJA105) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 106/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.269	148.04573	164.53764	96.02473	-1.40962
10.330	-.096	148.01238	164.52736	96.04037	-1.09660
10.330	10.156	147.95917	164.22286	95.89710	1.33852
10.330	20.299	147.87327	164.38538	96.04776	1.93151
10.330	35.760	147.82189	164.43614	96.11081	1.26097
	GRADIENT	.00000	.00000	.00000	.00000

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01N85N50 LARC CFHT 118 (MA-22)

(SJA107) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 107/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.261	148.06746	164.73035	96.12309	-1.45092
10.330	-.194	148.11010	164.67960	96.06581	-1.22947
10.330	10.146	148.06511	164.43614	95.95294	1.24342
10.330	20.420	148.15975	164.32436	95.82646	1.91916
10.330	35.723	148.11010	164.24340	95.81136	1.26047
	GRADIENT	.00000	.00000	.00000	.00000

01N85N50 LARC CFHT 118 (MA-22)

(SJA108) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 199.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 108/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.287	148.10452	330.59784	192.86145	-1.70337
10.330	-.205	148.14590	329.81594	192.35157	-1.84430
10.330	10.143	148.31484	329.73506	192.08535	1.16490
10.330	20.469	148.47664	329.12603	191.58615	1.98031
10.330	35.714	148.55681	328.97378	191.32973	1.27374
	GRADIENT	.00000	.00000	.00000	.00000

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O1N85N50 LARC CFHT 118 (MA-22)

(SJA109) (12 JAN 78)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = -3.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NOJET = 2.000

RUN NO. 109/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.340	149.04814	329.61295	191.06953	-1.76117
10.330	-.128	148.91322	328.95321	190.85987	-1.50881
10.330	10.176	148.85258	328.69947	190.79034	1.30880
10.330	20.336	148.67590	328.78042	191.06411	1.99372
10.330	35.751	148.58037	329.18638	191.42302	1.27462
	GRADIENT	.00000	.00000	.00000	.00000

O1N85N50 LARC CFHT 118 (MA-22)

(SJA110) (12 JAN 78)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = 3.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NOJET = 2.000

RUN NO. 110/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.315	149.16196	330.27268	191.30587	-1.69668
10.330	-.188	149.21759	330.03957	191.09958	-1.86753
10.330	10.156	149.32313	329.24812	190.50657	1.09351
10.330	20.453	149.40182	329.00396	190.26503	1.98043
10.330	35.876	149.55188	329.68370	190.45527	1.26787
	GRADIENT	.00000	.00000	.00000	.00000

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01N85N50 LARC CFHT 118 (MA-22)

(SJA111) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 111/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.339	148.21360	443.36855	258.45835	-1.93677
10.330	-.184	148.30750	444.89110	259.18170	-2.39009
10.330	10.135	148.51815	444.50805	258.59126	1.02369
10.330	20.453	148.69436	444.78960	258.44841	2.02959
10.330	35.762	148.83131	443.77456	257.62134	1.28115
	GRADIENT	.00000	.00000	.00000	.00000

01N85N50 LARC CFHT 118 (MA-22)

(SJA112) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 112/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.353	149.54293	443.47005	256.21948	-1.94391
10.330	-.173	149.37879	444.30506	256.98399	-1.95968
10.330	10.124	149.27668	443.44233	256.66043	1.22747
10.330	20.538	149.15028	444.18058	257.30560	2.03684
10.330	35.814	148.89031	444.20834	257.77097	1.28225
	GRADIENT	.00000	.00000	.00000	.00000

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01N85N50 LARC CFHT 118 (MA-22)

(SJA113) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 113/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.321	149.68692	443.94982	256.24994	-1.88513
10.330	-.172	149.85892	444.25910	256.13414	-2.34195
10.330	10.044	149.93517	444.05608	255.88689	.88914
10.330	20.526	150.05581	443.67306	255.46063	2.02490
10.330	35.794	150.14584	444.86816	255.99516	1.28002
	GRADIENT	.00000	.00000	.00000	.00000

01N85N50 LARC CFHT 118 (MA-22)

(SJA114) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 114/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.356	147.40916	-.15226	-.08924	-1.25017
10.330	-6.441	147.38177	-.20301	-.11901	-1.22020
10.330	-4.289	147.40806	-.15226	-.08924	-1.11268
10.330	-2.293	147.40681	-.10150	-.05949	-.95433
10.330	-.240	147.38102	-.15227	-.08927	-.72052
10.330	2.114	147.42694	-.15226	-.08923	-.34191
10.330	3.929	147.41323	-.10150	-.05949	.03327
10.330	5.964	147.38478	-.10151	-.05951	.46984
10.330	8.074	147.42353	-.15227	-.08924	.95937
10.330	9.919	147.42819	-.15226	-.08923	1.26873
10.330	15.239	147.41119	-.15227	-.08925	1.88472
10.330	20.469	147.35562	-.15226	-.08928	1.85575
10.330	25.422	147.37852	-.05076	-.02976	1.66868
10.330	30.387	147.37315	-.15226	-.08926	1.45863
10.330	35.615	147.35518	-.05075	-.02976	1.24633
	GRADIENT	.00158	.00227	.00133	.13930

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01N85N50 LARC CFHT 118 (MA-22)

(SJA115) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 115/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.241	147.33164	165.14666	96.84730	-1.54345
10.330	-6.325	147.36269	164.79140	96.61860	-1.56679
10.330	-4.269	147.39962	165.06590	96.75523	-1.49008
10.330	-2.287	147.42680	164.93335	96.65977	-1.39838
10.330	-.224	147.48315	164.83185	96.56338	-1.22958
10.330	1.850	147.52398	164.83165	96.53666	-.92854
10.330	3.812	147.56098	164.86276	96.52532	-.49300
10.330	5.881	147.58574	164.74065	96.44287	.07052
10.330	7.956	147.61931	164.58839	96.33182	.66983
10.330	10.055	147.64850	164.64944	96.34850	1.21029
10.330	15.142	147.62308	164.33463	96.18084	1.93503
10.330	20.303	147.64582	164.59868	96.32054	1.91846
10.330	25.455	147.63678	164.58839	96.32042	1.70727
10.330	30.438	147.57536	164.28388	96.18223	1.48269
10.330	35.636	147.57536	164.63914	96.39022	1.26369
GRADIENT		.02148	-.02502	-.02873	.12131

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01NB5N50 LARC CFHT 118 (MA-22)

(SJA118) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 80FLAP = .000
 NO.JET = 2.000

RUN NO. 116/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-8.247	148.81415	331.15611	192.26591	-1.81225
10.330	-6.082	148.93563	331.07530	192.06220	-1.89948
10.330	-4.248	148.96354	330.75009	191.83760	-1.95606
10.330	-2.185	149.01546	330.54709	191.65306	-1.96162
10.330	-.210	149.08097	330.11095	191.31607	-1.84239
10.330	2.058	149.15656	330.16171	191.24852	-1.61224
10.330	3.804	149.19818	330.29333	191.27139	-1.25521
10.330	5.803	149.24172	330.49633	191.33311	-.61637
10.330	7.963	149.21776	330.39483	191.30506	.36705
10.330	10.025	149.25569	329.98881	191.02141	1.09586
10.330	15.084	149.27719	330.21246	191.12335	1.99972
10.330	20.488	149.30518	330.55832	191.28766	1.97719
10.330	25.373	149.33269	329.50189	190.64120	1.75095
10.330	30.509	149.33919	330.09032	190.97334	1.50180
10.330	35.822	149.36271	330.26322	191.04328	1.27035
	GRADIENT	.03004	-.06431	-.07586	.08546

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01N85N50 LARC CFHT 118 (MA-22)

(SJA117) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 117/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.293	149.10173	443.36855	256.91893	-2.03715
10.330	-6.383	149.21805	443.41930	256.74794	-2.18905
10.330	-4.283	149.30984	443.49308	256.63280	-2.33233
10.330	-2.249	149.40110	443.87606	256.69751	-2.39044
10.330	-.093	149.45474	442.98559	256.09060	-2.36135
10.330	2.054	149.49236	442.88871	255.97017	-2.20321
10.330	3.907	149.56812	444.53584	256.79200	-1.83355
10.330	6.120	149.63755	442.88871	255.72180	-.97125
10.330	8.060	149.68566	442.63952	255.49578	.12761
10.330	10.075	149.75279	443.17019	255.68741	.99092
10.330	15.031	149.78822	443.77456	255.97555	2.04634
10.330	20.432	149.84485	443.41930	255.67397	2.02862
10.330	25.508	149.84590	443.04098	255.45404	1.76878
10.330	30.606	149.87249	442.93947	255.35019	1.51030
10.330	35.722	149.96365	442.70877	255.06206	1.28379
	GRADIENT	.02932	.04813	-.02253	.05651

01N85 LARC CFHT 118 (MA-22)

(SJA118) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 118/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.384	148.93660	159.00052	95.90152	-1.26376
10.330	-.192	148.94571	157.61568	95.66209	-.86981
10.330	9.869	148.95557	157.78764	95.76011	1.22081
10.330	20.234	149.00443	157.63538	95.63634	1.87043
10.330	35.533	148.96691	157.84826	95.78961	1.25001
	GRADIENT	.00000	.00000	.00000	.00000

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01N85 LARC CFHT 118 (MA-22)

(SJA119) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 119/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.340	149.02206	157.96952	95.82772	-1.26101
10.330	-.220	148.96466	157.93002	95.84067	-.78792
10.330	10.038	148.99659	157.99065	95.85695	1.35506
10.330	20.347	149.00268	157.78764	95.72984	1.87443
10.330	35.579	148.99516	157.89901	95.80224	1.25003
	GRADIENT	.00000	.00000	.00000	.00000

01N85 LARC CFHT 118 (MA-22)

(SJA120) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 120/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.331	149.02550	157.85813	95.75794	-1.32381
10.330	-.241	148.97500	157.84826	95.78441	-.93372
10.330	9.985	148.99386	157.84826	95.77100	1.23565
10.330	20.337	149.01162	157.94977	95.82245	1.86401
10.330	35.726	148.97411	157.83839	95.77899	1.24224
	GRADIENT	.00000	.00000	.00000	.00000

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01N85 LARC CFHT 118 (MA-22)

(SJA121) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 121/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.358	148.79150	313.00650	190.19351	-1.37978
10.330	-.247	148.82592	313.08843	190.17651	-1.10716
10.330	9.957	148.88479	313.20952	190.17483	1.18891
10.330	20.075	148.91142	312.78392	189.88246	1.86898
10.330	35.673	148.92261	312.98693	189.99142	1.24475
	GRADIENT	.00000	.00000	.00000	.00000

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(SJA122) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 122/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.439	149.01133	313.12758	189.96363	-1.38491
10.330	-.126	148.96881	313.32261	190.13620	-.84946
10.330	9.913	149.02253	313.07682	189.91856	1.29080
10.330	20.263	148.94509	313.20952	190.09784	1.87574
10.330	35.686	148.93749	312.90499	189.92270	1.24664
	GRADIENT	.00000	.00000	.00000	.00000

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(SJA123) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 123/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.365	149.03505	313.44370	190.12514	-1.38578
10.330	-.233	149.01316	313.18994	189.95913	-1.04750
10.330	10.008	149.02965	313.48289	190.15580	1.14056
10.330	20.394	148.99570	313.20952	190.03327	1.85828
10.330	35.543	149.01401	313.20952	190.00992	1.24925
	GRADIENT	.00000	.00000	.00000	.00000

01N85 LARC CFHT 118 (MA-22)

(SJA124) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 124/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.369	148.77988	630.74454	383.24808	-1.53594
10.330	-.204	148.89551	630.83472	383.00320	-1.36215
10.330	10.009	149.01455	630.78397	382.66646	1.03673
10.330	20.397	149.12203	630.56961	382.26070	1.85334
10.330	35.711	149.18477	630.53019	382.07605	1.24338
	GRADIENT	.00000	.00000	.00000	.00000

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(SJA125) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 125/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.432	149.31362	630.51885	381.73948	-1.49924
10.330	-.189	149.29225	630.26506	381.64045	-1.19775
10.330	10.067	149.27494	629.60520	381.28510	1.17669
10.330	20.352	149.23828	629.24990	381.16353	1.86945
10.330	35.742	149.14896	629.70672	381.66868	1.24569
	GRADIENT	.00000	.00000	.00000	.00000

01N85 LARC CFHT 118 (MA-22)

(SJA126) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 390.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 126/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.341	149.36913	630.71056	381.71364	-1.53211
10.330	-.226	149.46127	629.93251	381.00772	-1.32552
10.330	10.070	149.46775	630.45675	381.30827	1.00534
10.330	20.237	149.49142	630.30446	381.15580	1.85229
10.330	35.732	149.50699	630.22566	381.06847	1.24138
	GRADIENT	.00000	.00000	.00000	.00000

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O1N51 LARC CFHT 118 (MA-22)

(SJA127) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 153.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 127/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.340	148.98984	175.66329	191.00264	-1.26318
10.330	-.184	148.98492	175.70306	191.05219	-.78534
10.330	10.053	149.04343	175.80456	191.08751	1.25607
10.330	20.470	149.07484	175.40951	190.61795	1.86676
10.330	35.657	149.10013	175.67427	190.87328	1.24624
	GRADIENT	.00000	.00000	.00000	.00000

O1N51 LARC CFHT 118 (MA-22)

(SJA128) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 128/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.389	149.21820	175.36972	190.39161	-1.26152
10.330	-.130	149.15289	175.27918	190.37662	-.72654
10.330	9.929	149.20120	175.44930	190.49972	1.31004
10.330	20.257	149.18691	175.26820	190.32131	1.88393
10.330	35.670	149.13259	175.51102	190.65440	1.24786
	GRADIENT	.00000	.00000	.00000	.00000

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O1N51 LARC CFHT 118 (MA-22)

(SJA129) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = 3.000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NOJET = 4.000

RUN NO. 129/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.375	149.18583	175.62351	190.70852	-1.27643
10.330	-.227	149.24552	175.63449	190.64416	-.91637
10.330	9.987	149.31851	175.39855	190.29499	1.23934
10.330	20.315	149.30696	175.29012	190.19206	1.86720
10.330	35.717	149.26281	175.35876	190.32282	1.24334
	GRADIENT	.00000	.00000	.00000	.00000

O1N51 LARC CFHT 118 (MA-22)

(SJA130) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NOJET = 4.000

RUN NO. 130/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.328	148.96466	351.16745	381.89679	-1.27594
10.330	-.204	149.07461	350.20996	380.57462	-.97688
10.330	10.015	149.16250	350.18109	380.31902	1.22563
10.330	20.393	149.23121	349.57905	379.49035	1.86321
10.330	35.520	149.29246	351.60233	381.53016	1.25236
	GRADIENT	.00000	.00000	.00000	.00000

O1N51 LARC CFHT 118 (MA-22)

(SJA131) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = -3.000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NOJET = 4.000

RUN NO. 131/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.408	149.52283	351.14550	380.44739	-1.27516
10.330	-.175	149.46846	350.26071	379.62680	-.81792
10.330	10.082	149.45090	350.97129	380.44166	1.34756
10.330	20.165	149.40357	351.37733	381.00245	1.08488
10.330	35.538	149.34351	351.57355	381.36852	1.25383
	GRADIENT	.00000	.00000	.00000	.00000

O1N51 LARC CFHT 118 (MA-22)

(SJA132) (12 JAN 76)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = 3.000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NOJET = 4.000

RUN NO. 132/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.360	149.49737	351.17431	380.54340	-1.35596
10.330	-.240	149.57087	351.39929	380.60007	-1.00056
10.330	10.123	149.60146	350.94935	380.03502	1.17992
10.330	20.272	149.62188	351.20311	380.25791	1.06498
10.330	35.729	149.62999	350.58716	379.57042	1.24310
	GRADIENT	.00000	.00000	.00000	.00000

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01N51 LARC CFHT 118 (MA-22)

(SJA133) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 510.800
 ELEVON = .000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 133/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.321	149.05544	472.75389	513.80968	-1.40584
10.330	-.189	149.20168	472.10239	512.59869	-1.10664
10.330	10.012	149.35658	471.97136	511.92494	1.20435
10.330	20.406	149.45033	471.69632	511.30568	1.86072
10.330	35.549	149.52911	472.60997	512.02615	1.25168
	GRADIENT	.00000	.00000	.00000	.00000

01N51 LARC CFHT 118 (MA-22)

(SJA134) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 510.800
 ELEVON = .000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 134/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.349	149.85210	471.29025	509.49582	-1.41666
10.330	-.117	149.76315	471.61608	510.15089	-.83937
10.330	9.923	149.73948	472.47891	511.16501	1.32030
10.330	20.187	149.61445	471.56532	510.60295	1.88211
10.330	35.573	149.57320	472.50845	511.76126	1.25328
	GRADIENT	.00000	.00000	.00000	.00000

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OINS1 LARC CFHT 118 (MA-22)

(SJA135) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = 510.800
ELEVON = .000 BOFLAP = .000
NO.JET = 4.000

RUN NO. 135/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.315	149.89934	472.09412	510.20402	-1.40929
10.330	-.201	149.95699	471.86985	509.76560	-1.06832
10.330	10.025	149.95675	472.28419	510.21403	1.13107
10.330	20.325	150.00017	472.02212	509.78331	1.87004
10.330	35.736	150.07221	471.23950	508.69376	1.24332
	GRADIENT	.00000	.00000	.00000	.00000

OINS1 LARC CFHT 118 (MA-22)

(SJA135) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
ELEVON = .000 BOFLAP = .000
NO.JET = 4.000

RUN NO. 136/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.272	148.85566	-.20301	-.22094	-1.23821
10.330	-.244	148.85718	-.25379	-.27620	-.71516
10.330	10.124	148.88996	-.15227	-.16568	1.34772
10.330	20.277	148.88065	-.30457	-.33141	1.86324
10.330	35.706	148.92990	-.20301	-.22083	1.24147
	GRADIENT	.00000	.00000	.00000	.00000

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01N51 LARC CFHT 118 (MA-22)

(SJA137) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 137/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.223	148.89612	-.20305	-.22092	-1.23558
10.330	-.221	148.86413	-.15228	-.15572	-.67848
10.330	10.006	148.89340	-.25378	-.27612	1.39219
10.330	20.453	148.91816	-.20303	-.22087	1.86956
10.330	35.749	148.87254	-.30453	-.33138	1.24054
	GRADIENT	.00000	.00000	.00000	.00000

01N51 LARC CFHT 118 (MA-22)

(SJA138) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 138/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.222	148.84924	-.20303	-.22097	-1.25277
10.330	-.229	148.86957	-.25379	-.27617	-.72008
10.330	10.085	148.85304	-.20303	-.22096	1.36663
10.330	20.353	148.84003	-.25382	-.27626	1.86495
10.330	35.625	148.86170	-.15227	-.16571	1.24367
	GRADIENT	.00000	.00000	.00000	.00000

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QIN51 LARC CFHT 118 (MA-22)

(SJA139) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 4.000

RUN NO. 139/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.442	148.73977	175.27916	190.90539	-1.27493
10.330	-6.289	148.78536	175.53297	191.12324	-1.34077
10.330	-4.266	148.83150	175.26820	190.77580	-1.23362
10.330	-2.274	148.85896	175.31896	190.79585	-1.06102
10.330	-.241	148.82951	175.26820	190.77835	-.81493
10.330	2.050	148.90235	175.22840	190.64172	-.46270
10.330	3.738	148.91900	174.91289	190.27718	-.11417
10.330	5.972	148.91022	175.07611	190.46597	.36550
10.330	8.032	148.93189	175.05422	190.41444	.87786
10.330	9.841	148.95542	175.01441	190.34107	1.21813
10.330	14.969	148.96535	174.50683	189.77639	1.87039
10.330	20.311	149.00971	174.92383	190.17324	1.86846
10.330	25.230	149.00990	174.84027	190.08216	1.68295
10.330	30.568	149.00808	174.65910	189.88751	1.45149
10.330	35.616	149.06582	174.65910	189.81396	1.24775
	GRADIENT	.01079	-.03849	-.05569	.13922

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01N51 LARC CFHT 118 (MA-22)

(SJA140) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 140/ 0 RH/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.149	149.48871	351.72583	381.16312	-1.38871
10.330	-6.238	149.60633	351.57355	380.69856	-1.36647
10.330	-4.115	149.67281	350.89171	379.79147	-1.27809
10.330	-2.307	149.68263	351.03712	379.92392	-1.14307
10.330	-.257	149.77377	351.19626	379.86486	-1.00858
10.330	2.025	149.80774	350.89171	379.44939	-.65144
10.330	3.711	149.88931	351.12355	379.49346	-.21019
10.330	5.971	149.94616	350.66675	378.85607	.21072
10.330	8.011	149.98030	350.66675	378.76982	.79154
10.330	9.834	150.00469	351.13865	379.21788	1.19291
10.330	14.975	150.04799	350.89171	378.84183	1.86588
10.330	20.359	150.02535	350.91365	378.92270	1.86600
10.330	25.357	150.08578	350.74634	378.58954	1.67996
10.330	30.511	150.08816	350.40603	378.21621	1.45822
10.330	35.530	150.13528	350.05769	377.72164	1.25329
	GRADIENT	.02787	.01438	-.05510	.13113

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01N51 LARC CFHT 118 (MA-22)

(SJA141) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 510.800
 ELEVON = .000 SOFLAP = .000
 NO.JET = 4.000

RUN NO. 141/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.199	149.13371	473.24865	514.07747	-1.42020
10.330	-6.269	149.30728	472.66907	512.85101	-1.42522
10.330	-4.186	149.40769	472.56754	512.39625	-1.35272
10.330	-2.387	149.48602	472.51677	512.07274	-1.27989
10.330	-.168	149.55823	471.84859	511.10173	-1.11928
10.330	1.885	149.60498	472.16142	511.28077	-.81546
10.330	4.113	149.70200	471.66683	510.41419	-.37595
10.330	5.904	149.71583	471.84859	510.56372	.08790
10.330	7.986	149.81203	471.44253	509.79676	.73022
10.330	9.997	149.86063	472.35618	510.61909	1.18920
10.330	14.934	149.92299	472.20390	510.24216	1.85011
10.330	20.371	149.97450	472.15314	510.01208	1.86364
10.330	25.416	149.96140	471.92886	509.81435	1.67831
10.330	30.363	150.04041	471.97962	509.60070	1.46457
10.330	35.668	150.06591	471.26079	508.73811	1.24905
	GRADIENT	.03387	-.10403	-.22853	.11667

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O1N51 LARC CFHT 118 (MA-22)

(SJA142) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 142/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.371	148.63276	-.25381	-.27664	-1.24999
10.330	-6.389	148.60636	-.25381	-.27669	-1.21524
10.330	-4.252	148.61097	-.20305	-.22134	-1.10503
10.330	-2.211	148.62630	-.25379	-.27663	-.95325
10.330	-.212	148.60291	-.15229	-.16602	-.70725
10.330	1.897	148.62468	-.25378	-.27662	-.36544
10.330	3.849	148.65165	-.20302	-.22125	.03227
10.330	5.918	148.61557	-.20302	-.22130	.46760
10.330	8.018	148.62721	-.20302	-.22129	.94919
10.330	10.043	148.63748	-.25379	-.27661	1.33111
10.330	15.087	148.63772	-.20306	-.22131	1.87952
10.330	20.240	148.66551	-.25381	-.27658	1.86579
10.330	25.289	148.64233	-.20303	-.22128	1.67735
10.330	30.493	148.63115	-.20303	-.22129	1.45426
10.330	35.639	148.60003	-.15228	-.16601	1.24628
	GRADIENT	.00392	-.00010	-.00010	.14087

O1N78 LARC CFHT 118 (MA-22)

(SJA143) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 143/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.371	147.79556	-.05075	-.01545	-1.23765
10.330	-.126	147.75942	.00000	.00000	-.67983
10.330	10.056	147.75467	.00000	.00000	1.36577
10.330	20.272	147.74015	.00000	.00000	1.86951
10.330	35.658	147.69732	.00000	.00000	1.24489
	GRADIENT	.00000	.00000	.00000	.00000

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01N78 LARC CFHT 118 (MA-22)

(SJA144) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 144/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.406	147.71395	.00000	.00000	-1.23219
10.330	-.209	147.69291	.00000	.00000	-.65370
10.330	10.148	147.74527	-.05077	-.01546	1.43973
10.330	20.287	147.70081	.00000	.00000	1.88127
10.330	35.699	147.77698	.00000	.00000	1.24365
	GRADIENT	.00000	.00000	.00000	.00000

01N78 LARC CFHT 118 (MA-22)

(SJA145) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 145/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.400	147.65857	.00000	.00000	-1.24798
10.330	-.218	147.58891	.00000	.00000	-.70101
10.330	10.069	147.64477	-.05075	-.01547	1.37935
10.330	20.148	147.64950	.00000	.00000	1.87390
10.330	35.605	147.63058	.00000	.00000	1.24586
	GRADIENT	.00000	.00000	.00000	.00000

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OIN78 LARC CFHT 118 (MA-22)

(SJA146) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 146/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.350	147.58156	156.39779	47.68821	-1.29062
10.330	-.254	147.52439	156.44853	47.72217	-.80003
10.330	10.003	147.65860	156.39779	47.66333	1.31430
10.330	20.355	147.55982	156.54024	47.73868	1.86673
10.330	35.627	147.63343	156.55002	47.71786	1.24619
	GRADIENT	.00000	.00000	.00000	.00000

OIN78 LARC CFHT 118 (MA-22)

(SJA147) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 47.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 147/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.349	147.64464	156.35681	47.65534	-1.27899
10.330	-.188	147.66373	156.30606	47.63372	-.73958
10.330	10.155	147.65465	156.59098	47.72348	1.40666
10.330	20.290	147.55011	156.39779	47.69828	1.87743
10.330	35.668	147.70572	156.29629	47.61720	1.24573
	GRADIENT	.00000	.00000	.00000	.00000

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01N78 LARC CFHT 118 (MA-22)

(SJA148) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 47.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 148/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.349	147.55367	156.51884	47.73414	-1.30334
10.330	-.229	147.65219	156.80375	47.78912	-.78979
10.330	10.008	147.68233	156.55981	47.70504	1.34199
10.330	20.441	147.64717	156.80375	47.79075	1.86810
10.330	35.700	147.66828	156.70226	47.75299	1.24328
	GRADIENT	.00000	.00000	.00000	.00000

01N78 LARC CFHT 118 (MA-22)

(SJA149) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 149/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.276	147.48149	312.79557	95.44113	-1.32420
10.330	-.159	147.57588	312.38961	95.25630	-.90357
10.330	10.076	147.58142	312.10464	95.16583	1.31438
10.330	20.410	147.44501	311.72991	95.13951	1.86555
10.330	35.590	147.59696	312.49110	95.27364	1.24805
	GRADIENT	.00000	.00000	.00000	.00000

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01N78 LARC CFHT 118 (MA-22)

(SJA150) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 150/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.386	147.60127	312.17490	95.17445	-1.31736
10.330	-.183	147.51218	312.03439	95.16907	-.83210
10.330	10.033	147.57296	312.12415	95.17724	1.34735
10.330	20.315	147.55574	311.98364	95.14549	1.87374
10.330	35.635	147.55657	312.00314	95.15090	1.24678
	GRADIENT	.00000	.00000	.00000	.00000

01N78 LARC CFHT 118 (MA-22)

(SJA151) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 95.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 151/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.369	147.66417	311.85090	95.03517	-1.34043
10.330	-.204	147.66853	312.08513	95.10375	-.87080
10.330	10.001	147.59245	311.95239	95.11230	1.32866
10.330	20.405	147.60674	312.25689	95.19592	1.86690
10.330	35.724	147.63932	312.25689	95.17491	1.24201
	GRADIENT	.00000	.00000	.00000	.00000

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01N78 LARC CFHT 118 (MA-22)

(SJA132) (12 JAN 78)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 152/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.419	148.34871	625.68099	189.79366	-1.43209
10.330	-.249	148.46283	624.98219	189.43595	-1.15541
10.330	10.030	148.44428	625.33741	189.56731	1.26125
10.330	20.232	148.44854	625.36484	189.57018	1.88217
10.330	35.604	148.49193	625.52874	189.57723	1.25155
	GRADIENT	.00000	.00000	.00000	.00000

01N78 LARC CFHT 118 (MA-22)

(SJA153) (12 JAN 78)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

BETA = -3.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 153/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.423	148.53121	625.27500	189.43745	-1.43834
10.330	-.192	148.58798	624.93145	189.26103	-1.04613
10.330	10.024	148.49483	624.98219	189.39513	1.28145
10.330	20.116	148.49771	625.07201	189.41867	1.89125
10.330	35.632	148.51671	625.52874	189.53283	1.25158
	GRADIENT	.00000	.00000	.00000	.00000

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01N78 LARC CFHT 118 (MA-22)

(SJA154) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 154/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.401	148.56565	625.23592	189.38170	-1.43908
10.330	-.228	148.54272	625.61860	189.52687	-1.04194
10.330	10.032	148.57370	625.66935	189.50272	1.32500
10.330	20.318	148.57105	625.68099	189.50962	1.88874
10.330	35.549	148.55228	625.17350	189.37984	1.25396
	GRADIENT	.00000	.00000	.00000	.00000

01N52 LARC CFHT 118 (MA-22)

(SJA155) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 155/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.417	147.79513	155.03735	96.50816	-1.31395
10.330	-.234	147.87864	154.77393	96.28978	-.82215
10.330	9.969	147.86596	154.84403	96.34165	1.30030
10.330	20.395	147.89648	154.52986	96.12634	1.86979
10.330	35.675	147.95552	154.79328	96.25177	1.24577
	GRADIENT	.00000	.00000	.00000	.00000

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01N52 LARC CFHT 118 (MA-22)

(SJA156) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 156/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.224	147.96490	154.73285	96.20810	-1.29184
10.330	-.207	147.99719	154.62169	96.11801	-.78253
10.330	10.085	147.93477	154.42836	96.03833	1.38111
10.330	20.253	147.93042	154.43801	96.04716	1.87856
10.330	35.712	147.93819	154.52020	96.09323	1.24516
	GRADIENT	.00000	.00000	.00000	.00000

01N52 LARC CFHT 118 (MA-22)

(SJA157) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 157/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.225	147.97642	154.88510	96.29527	-1.32860
10.330	-.238	147.94629	154.78360	96.25176	-.83244
10.330	10.021	147.97804	154.64102	96.14246	1.35962
10.330	20.125	147.97336	155.00597	96.37241	1.88156
10.330	35.601	148.02462	154.87542	96.25790	1.24797
	GRADIENT	.00000	.00000	.00000	.00000

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01N52 LARC CFHT 118 (MA-22)

(SJA158) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 158/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.414	147.79604	309.07903	192.39535	-1.38941
10.330	-.243	147.85259	309.66870	192.68868	-1.05382
10.330	9.999	147.90851	309.70009	192.63535	1.29896
10.330	20.179	147.94647	309.24338	192.30192	1.88584
10.330	35.685	147.98450	308.65373	191.88592	1.24835
	GRADIENT	.00000	.00000	.00000	.00000

01N52 LARC CFHT 118 (MA-22)

(SJA159) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 159/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.418	148.11322	309.61795	192.31808	-1.41023
10.330	-.215	148.04804	309.33279	192.22555	-.99278
10.330	9.863	148.04858	309.94182	192.60331	1.27057
10.330	20.123	148.02711	308.72377	191.87422	1.89080
10.330	35.721	148.02206	309.46571	192.34190	1.24817
	GRADIENT	.00000	.00000	.00000	.00000

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(SJA180) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 160/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.410	148.06951	309.68806	192.41842	-1.39907
10.330	-.227	148.11084	309.46571	192.22661	-.96636
10.330	10.026	148.07727	309.33279	192.18761	1.35384
10.330	20.290	148.09062	309.05972	192.00064	1.88906
10.330	35.685	148.13722	309.41496	192.16086	1.24880
	GRADIENT	.00000	.00000	.00000	.00000

OIN52 LARC CFHT 118 (MA-22)

(SJA181) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 161/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.240	147.94489	620.04788	385.57874	-1.60410
10.330	-.189	148.01548	620.25088	385.52102	-1.27661
10.330	9.902	148.08634	619.73138	384.98780	1.13643
10.330	20.184	148.13963	620.13739	385.12746	1.89697
10.330	35.428	148.22012	619.28665	384.39026	1.26449
	GRADIENT	.00000	.00000	.00000	.00000

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01N52 LARC CFHT 118 (MA-22)

(SJA162) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 380.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 162/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.374	148.43154	618.76709	383.52072	-1.58628
10.330	-.167	148.42310	618.91935	383.63691	-1.21169
10.330	9.979	148.36362	619.84489	384.36463	1.13910
10.330	20.453	148.31595	619.79414	384.45670	1.89343
10.330	35.449	148.27557	619.54040	384.40395	1.26395
	GRADIENT	.00000	.00000	.00000	.00000

01N52 LARC CFHT 118 (MA-22)

(SJA163) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 380.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 163/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.348	148.41809	620.14938	384.41232	-1.61506
10.330	-.119	148.46918	618.22093	383.08506	-1.14657
10.330	9.994	148.50376	620.54341	384.43466	1.28270
10.330	20.311	148.52692	620.58220	384.39874	1.90297
10.330	35.475	148.48614	619.61785	383.90682	1.26292
	GRADIENT	.00000	.00000	.00000	.00000

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01N52 LARC CFHT 118 (MA-22)

(SJA164) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 164/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.252	147.84589	154.57095	96.18493	-1.32346
10.330	-6.293	147.84317	154.41871	96.09183	-1.29309
10.330	-4.096	147.85310	154.62169	96.21168	-1.18179
10.330	-2.302	147.85633	154.69177	96.25318	-1.05658
10.330	-.232	147.89047	154.58061	96.16181	-.82880
10.330	1.837	147.89947	154.78360	96.28223	-.55014
10.330	4.065	147.97161	154.69177	96.17820	-.11186
10.330	5.942	147.97038	154.73285	96.20454	.30949
10.330	7.933	147.98661	154.42836	96.00469	.83025
10.330	9.999	147.95919	154.68210	96.18026	1.29271
10.330	15.118	148.03065	154.78360	96.19691	1.88956
10.330	20.249	147.99835	154.59027	96.09772	1.87821
10.330	25.495	148.02415	154.68210	96.13805	1.67423
10.330	30.492	147.99382	154.42836	96.00001	1.45745
10.330	35.657	148.04850	154.59027	96.06517	1.24753
	GRADIENT	.01385	.01118	-.00206	.13016

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01N52 LARC CFHT 118 (MA-22)

(SJA165) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 165/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.340	148.01751	310.02394	192.69478	-1.40098
10.330	-6.383	148.02779	309.56720	192.39753	-1.38288
10.330	-4.384	148.11404	309.63731	192.32905	-1.29987
10.330	-2.313	148.17111	309.46571	192.14842	-1.23588
10.330	-.244	148.15193	309.05972	191.92118	-1.06843
10.330	1.839	148.15103	309.48505	192.18648	-.75986
10.330	4.097	148.22632	309.18054	191.89985	-.28499
10.330	5.960	148.24435	309.51645	192.08498	.21307
10.330	7.973	148.25123	308.87603	191.67864	.77533
10.330	9.987	148.27955	309.33279	191.92542	1.27166
10.330	14.973	148.26526	309.51645	192.05789	1.89805
10.330	20.326	148.29763	309.60591	192.07147	1.88398
10.330	25.477	148.34493	309.50440	191.94727	1.68253
10.330	30.551	148.28238	309.00897	191.72085	1.46009
10.330	35.668	148.35742	309.68806	192.04500	1.25012
	GRADIENT	.00977	-.04230	-.03894	.11926

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OIN52 LARC CFHT 118 (MA-22)

(SJA168) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.9000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 390.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 166/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.286	148.25572	620.42993	385.00742	-1.63134
10.330	-6.351	148.39134	619.18515	383.88381	-1.65736
10.330	-4.131	148.43985	619.27461	383.81380	-1.61596
10.330	-2.332	148.49166	620.35238	384.34763	-1.48663
10.330	-.254	148.55466	620.49266	384.24565	-1.28040
10.330	2.010	148.64219	620.39115	383.98240	-.95453
10.330	3.716	148.64404	619.98514	383.72633	-.57428
10.330	5.897	148.63423	620.32842	383.80920	-.01026
10.330	7.897	148.69145	620.37918	383.84778	.56175
10.330	10.117	148.74118	620.28965	383.66407	1.19714
10.330	15.136	148.79290	620.22691	383.49192	1.90433
10.330	20.267	148.81783	620.37918	383.52182	1.89793
10.330	25.404	148.81766	619.38815	382.90959	1.69899
10.330	30.512	148.82606	619.38815	382.88797	1.47232
10.330	35.445	148.90090	620.56118	383.42030	1.26531
	GRADIENT	.02806	.07158	-.02818	.13036

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01N82 LARC CFHT 118 (MA-22)

(SJA167) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 142.500
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 167/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.516	148.31672	157.49297	143.98947	-1.36588
10.330	-6.153	148.31071	157.58463	144.07911	-1.33930
10.330	-4.428	148.35674	157.53388	143.98802	-1.25673
10.330	-2.313	148.36328	157.63538	144.07445	-1.15660
10.330	-.240	148.37299	157.38162	143.83310	-.96142
10.330	1.822	148.41780	157.47328	143.87342	-.67638
10.330	4.054	148.37260	157.43238	143.87987	-.19443
10.330	5.946	148.42899	157.52403	143.90894	.25870
10.330	7.944	148.41599	157.18844	143.61493	.81218
10.330	9.966	148.42845	157.39146	143.78835	1.29272
10.330	15.263	148.43527	157.28012	143.68003	1.91147
10.330	20.389	148.48109	157.33087	143.68204	1.88247
10.330	25.367	148.45206	157.41270	143.78488	1.68752
10.330	30.372	148.46325	157.10822	143.49594	1.46859
10.330	35.675	148.45025	157.28012	143.66553	1.25041
	GRADIENT	.00401	-.01723	-.01964	.12379

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01N82 LARC CFHT 11B (MA-22)

(SJA168) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 285.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 168/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.344	148.42755	314.49805	287.31819	-1.53976
10.330	-6.360	148.48605	314.49805	287.20499	-1.51121
10.330	-4.189	148.56189	314.44729	287.01205	-1.52314
10.330	-2.345	148.60397	314.52915	287.00547	-1.41067
10.330	-.292	148.64093	314.02160	286.47108	-1.19765
10.330	1.790	148.68524	314.39654	286.72766	-.88164
10.330	3.892	148.69377	314.35723	286.67536	-.42497
10.330	5.975	148.74809	314.35723	286.57067	.14712
10.330	7.787	148.80779	314.47839	286.56610	.65464
10.330	10.001	148.84119	314.09199	286.14978	1.23938
10.330	15.118	148.84102	314.71249	286.71540	1.92152
10.330	20.269	148.91653	314.20498	286.10789	1.89449
10.330	25.353	148.87274	314.30648	286.28450	1.70151
10.330	30.354	148.90253	314.30648	286.22723	1.47756
10.330	35.672	148.90887	314.30648	286.21504	1.25547
	GRADIENT	.01694	-.01504	-.04642	.13492

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(SJA169) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 570.000
 ELEVOM = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 169/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.376	148.61110	630.59228	575.39308	-1.82570
10.330	-6.435	148.77086	630.65437	574.82178	-1.87708
10.330	-4.314	148.87403	630.59228	574.36688	-1.78983
10.330	-2.323	148.99934	630.24838	573.57085	-1.65267
10.330	-.259	149.05758	629.38565	572.56190	-1.46500
10.330	1.794	149.10969	630.02264	572.94109	-1.19488
10.330	3.881	149.22144	630.65437	573.08609	-.76388
10.330	6.016	149.25475	630.14688	572.49713	-.19388
10.330	7.838	149.35514	630.59228	572.51669	.37043
10.330	10.009	149.39673	630.45137	572.22942	1.06185
10.330	15.113	149.43777	630.08476	571.73960	1.92308
10.330	20.210	149.52083	629.37424	570.77763	1.93703
10.330	25.295	149.56786	630.28777	571.42638	1.72491
10.330	30.465	149.59350	630.79529	571.78848	1.48837
10.330	35.522	149.70342	629.22198	569.94355	1.27210
	GRADIENT	.03924	-.00409	-.15475	.12257

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01N82 LARC CFHT 118 (MA-22)

(SJA170) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 170/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.341	147.85889	-.20302	-.18619	-1.24687
10.330	-6.380	147.88090	-.15226	-.13962	-1.21371
10.330	-4.406	147.86902	-.20299	-.18615	-1.11733
10.330	-2.254	147.93140	-.20301	-.18609	-.96104
10.330	-.225	147.87712	-.20302	-.18616	-.70814
10.330	1.857	147.87857	-.25376	-.23269	-.37391
10.330	3.779	147.87334	-.20301	-.18616	.01309
10.330	5.934	147.89372	-.15226	-.13960	.47227
10.330	7.962	147.90525	-.15227	-.13960	.93460
10.330	10.001	147.85621	-.25378	-.23274	1.31606
10.330	14.996	147.86144	-.25378	-.23274	1.88054
10.330	20.357	147.88254	-.25376	-.23268	1.86231
10.330	25.523	147.85804	-.15225	-.13963	1.66793
10.330	30.503	147.83603	-.25376	-.23276	1.45407
10.330	35.662	147.82141	-.25376	-.23278	1.24458
	GRADIENT	-.00208	-.00255	-.00234	.13864

01N82 LARC CFHT 118 (MA-22)

(SJA171) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 171/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.266	148.16650	631.17871	577.64632	-1.80913
10.330	-.212	148.27145	631.15055	577.21168	-1.45560
10.330	9.978	148.41743	631.41560	576.88612	1.04795
10.330	20.173	148.56918	631.74831	576.60053	1.92917
10.330	35.512	148.66135	630.49078	575.09601	1.26975
	GRADIENT	.00000	.00000	.00000	.00000

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01N82 LARC CFHT 118 (MA-22)

(SJA172) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 570.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 172/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.510	149.11255	631.38174	574.16604	-1.79269
10.330	-.297	149.01879	629.52649	572.93910	-1.43012
10.330	9.993	148.96061	631.96258	575.28043	1.06966
10.330	20.146	148.85786	630.29912	574.16222	1.93563
10.330	35.552	148.69761	631.00961	575.42890	1.26863
	GRADIENT	.00000	.00000	.00000	.00000

01N82 LARC CFHT 118 (MA-22)

(SJA173) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 570.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 173/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.459	149.12339	631.77084	574.47812	-1.84989
10.330	-.233	149.18964	631.74831	574.20254	-1.34507
10.330	10.013	149.22347	631.61859	573.95448	1.21637
10.330	20.425	149.32020	631.86108	573.80287	1.93973
10.330	35.584	149.37569	629.42499	571.37830	1.26958
	GRADIENT	.00000	.00000	.00000	.00000

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01N82 LARC CFHT 118 (MA-22)

(SJA174) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 174/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.384	147.65218	-.30453	-.27967	-1.24116
10.330	-.164	147.71972	-.30451	-.27953	-.68838
10.330	10.043	147.71915	-.25379	-.23297	1.33690
10.330	20.390	147.72688	-.35531	-.32614	1.85769
10.330	35.590	147.72098	-.25376	-.23294	1.24584
	GRADIENT	.00000	.00000	.00000	.00000

01N82 LARC CFHT 118 (MA-22)

(SJA175) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 175/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.414	147.69990	-.25378	-.23299	-1.23251
10.330	-.223	147.66081	-.30451	-.27964	-.66754
10.330	10.083	147.67845	-.35526	-.32620	1.41869
10.330	20.316	147.65323	-.30449	-.27963	1.87225
10.330	35.613	147.68835	-.30449	-.27957	1.24544
	GRADIENT	.00000	.00000	.00000	.00000

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01N82 LARC CFHT 118 (MA-22)

(SJA176) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 176/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.398	147.70046	-.25374	-.23295	-1.25279
10.330	-.149	147.67416	-.20299	-.18639	-.69161
10.330	10.018	147.67597	-.15227	-.13982	1.35728
10.330	20.349	147.69302	-.25379	-.23301	1.86252
10.330	35.466	147.63689	-.20301	-.18646	1.25026
	GRADIENT	.00000	.00000	.00000	.00000

01N82 LARC CFHT 118 (MA-22)

(SJA177) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 177/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.416	148.31896	-.05073	-.04638	-1.24637
10.330	-.228	148.32219	-.10147	-.09277	-.70088
10.330	10.019	148.33665	.00000	.00000	1.33608
10.330	20.413	148.33080	.00000	.00000	1.86273
10.330	35.640	148.32121	.00000	.00000	1.24553
	GRADIENT	.00000	.00000	.00000	.00000

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01N82 LARC CFHT 118 (MA-22)

(SJA178) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 178/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.265	148.19425	.00000	.00000	-1.23746
10.330	-.226	148.38708	.00000	.00000	-.67108
10.330	9.970	148.26542	-.05074	-.04641	1.40026
10.330	20.339	148.29606	-.05074	-.04640	1.87987
10.330	35.683	148.40041	.00000	.00000	1.24463
	GRADIENT	.00000	.00000	.00000	.00000

01N82 LARC CFHT 118 (MA-22)

(SJA179) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 179/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.265	148.18891	-.05074	-.04643	-1.25669
10.330	-.228	148.21578	.00000	.00000	-.70432
10.330	9.899	148.21913	.00000	.00000	1.34329
10.330	20.287	148.17140	-.10148	-.09287	1.86909
10.330	35.493	148.18838	.00000	.00000	1.25026
	GRADIENT	.00000	.00000	.00000	.00000

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Q1N82 LARC CFHT 118 (MA-22)

(SJA180) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 142.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 180/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.230	147.74178	157.74820	144.78407	-1.35772
10.330	-.194	147.67006	157.40286	144.53727	-.92839
10.330	9.910	147.72248	157.76791	144.82107	1.29427
10.330	20.080	147.79043	157.59598	144.59674	1.88574
10.330	35.488	147.65602	157.19007	144.35560	1.25445
	GRADIENT	.00000	.00000	.00000	.00000

Q1N82 LARC CFHT 118 (MA-22)

(SJA181) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 142.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 181/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.403	147.84056	157.34228	144.31502	-1.34737
10.330	-.212	147.85460	157.24080	144.20824	-.91001
10.330	10.196	147.78001	157.55509	144.56942	1.38094
10.330	20.280	147.77171	157.36195	144.40031	1.88554
10.330	35.530	147.77331	157.41270	144.44531	1.25358
	GRADIENT	.00000	.00000	.00000	.00000

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01N82 LARC CFHT 118 (MA-22)

(SJA182) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 142.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 182/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.398	147.81696	157.48466	144.46867	-1.37577
10.330	-.112	147.86971	157.61568	144.53728	-.87428
10.330	10.004	147.85638	157.66642	144.59685	1.35475
10.330	20.272	147.84795	157.59598	144.54049	1.88811
10.330	35.602	147.87983	157.40286	144.33224	1.25048
	GRADIENT	.00000	.00000	.00000	.00000

01N82 LARC CFHT 118 (MA-22)

(SJA183) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 285.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 183/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.474	148.19430	315.23136	288.44140	-1.53429
10.330	-.254	148.29816	314.78804	287.83221	-1.18895
10.330	9.850	148.34208	314.14607	287.16198	1.20496
10.330	20.180	148.38726	314.29829	287.21366	1.89512
10.330	35.659	148.42428	313.92348	286.79959	1.25371
	GRADIENT	.00000	.00000	.00000	.00000

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01N82 LARC CFHT 118 (MA-22)

(SJA184) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 285.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 184/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.370	148.53017	313.77535	286.46355	-1.51115
10.330	-.161	148.51947	314.01346	286.69793	-1.10518
10.330	9.985	148.50108	313.86123	286.59443	1.24567
10.330	20.312	148.44267	313.38493	286.27210	1.90059
10.330	35.703	148.45337	313.79087	286.62226	1.25518
	GRADIENT	.00000	.00000	.00000	.00000

01N82 LARC CFHT 118 (MA-22)

(SJA185) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 285.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 185/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.350	148.53825	314.21645	286.84699	-1.51721
10.330	-.267	148.58472	314.16570	286.71096	-1.11147
10.330	10.029	148.60248	314.11495	286.63039	1.32633
10.330	20.296	148.58346	313.81048	286.38921	1.90488
10.330	35.574	148.56231	313.96272	286.56895	1.25900
	GRADIENT	.00000	.00000	.00000	.00000

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01N79 LARC CFHT 118 (MA-22)

(SJA186) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 47.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 186/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.387	148.09283	157.51419	48.92642	-1.29477
10.330	-.169	148.11309	157.42254	48.89127	-.76803
10.330	10.043	148.09972	157.51419	48.92415	1.33290
10.330	20.432	148.11310	157.38162	48.87856	1.89120
10.330	35.586	148.12232	157.51419	48.91668	1.25429
	GRADIENT	.00000	.00000	.00000	.00000

01N79 LARC CFHT 118 (MA-22)

(SJA187) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 47.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 187/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.383	148.12808	157.53388	48.92090	-1.28481
10.330	-.187	148.14884	157.37179	48.86371	-.71793
10.330	10.090	148.16690	157.21954	48.81049	1.39608
10.330	20.189	148.16219	157.45360	48.88471	1.90610
10.330	35.632	148.12897	157.47328	48.90178	1.25486
	GRADIENT	.00000	.00000	.00000	.00000

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01N79 LARC CFHT 118 (MA-22)

(SJA188) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 47.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 188/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.376	148.10314	157.65657	48.96724	-1.30287
10.330	-.220	148.07916	157.57478	48.94976	-.78598
10.330	10.018	148.09071	157.53388	48.93324	1.33074
10.330	20.276	148.07392	157.42254	48.90420	1.89950
10.330	35.687	148.09161	157.77778	49.00870	1.25112
	GRADIENT	.00000	.00000	.00000	.00000

01N79 LARC CFHT 118 (MA-22)

(SJA189) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 189/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.357	148.03845	314.36868	97.68380	-1.36238
10.330	-.207	148.07022	314.25573	97.62775	-1.00840
10.330	10.084	148.07672	314.30648	97.63924	1.34533
10.330	20.397	148.12709	313.97084	97.50180	1.91263
10.330	35.520	148.15253	314.11495	97.52980	1.26410
	GRADIENT	.00000	.00000	.00000	.00000

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O1N79 LARC CFHT 118 (MA-22)

(SJA190) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 190/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.405	148.20019	313.90046	97.43186	-1.35785
10.330	-.106	148.25780	313.49445	97.26803	-.96045
10.330	10.220	148.21139	314.03309	97.46567	1.42156
10.330	20.355	148.17745	313.47485	97.31469	1.92103
10.330	35.571	148.13448	314.06421	97.52593	1.26324
	GRADIENT	.00000	.00000	.00000	.00000

O1N79 LARC CFHT 118 (MA-22)

(SJA191) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 191/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.394	148.21283	313.94310	97.43679	-1.42239
10.330	-.233	148.14080	314.12311	97.54006	-1.01581
10.330	10.066	148.16661	314.13459	97.52663	1.34569
10.330	20.306	148.16283	314.10347	97.51946	1.91435
10.330	35.579	148.16499	313.74821	97.40774	1.26134
	GRADIENT	.00000	.00000	.00000	.00000

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01N79 LARC CFHT 118 (MA-22)

(SJA192) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 192/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.236	148.00605	625.00957	194.25179	-1.60437
10.330	-.192	148.04466	624.14679	193.93304	-1.42862
10.330	10.242	148.08818	623.98279	193.82511	1.39324
10.330	20.247	148.16994	624.36152	193.83573	1.97459
10.330	35.785	148.16901	624.20928	193.78969	1.26555
	GRADIENT	.00000	.00000	.00000	.00000

01N79 LARC CFHT 118 (MA-22)

(SJA193) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 193/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.350	148.28668	625.46634	194.02586	-1.50374
10.330	-.187	148.29469	625.51709	194.03112	-1.35521
10.330	10.053	148.23998	625.21258	194.00824	1.39159
10.330	20.483	148.23561	623.74078	193.55724	1.97226
10.330	35.822	148.23962	624.41227	193.76037	1.26606
	GRADIENT	.00000	.00000	.00000	.00000

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01N79 LARC CFHT 118 (MA-22)

(SJA194) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 194/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.313	148.35270	624.60356	193.67200	-1.62931
10.330	-1.142	148.35007	624.15853	193.53743	-1.39567
10.330	10.075	148.34426	624.69638	193.77391	1.33495
10.330	20.548	148.38350	623.98279	193.43935	1.95858
10.330	35.775	148.33562	625.06033	193.83594	1.26637
	GRADIENT	.00000	.00000	.00000	.00000

01N79 LARC CFHT 118 (MA-22)

(SJA195) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 195/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.478	147.86671	.00000	.00000	-1.23649
10.330	-6.360	147.86742	.00000	.00000	-1.20394
10.330	-4.289	147.84343	.00000	.00000	-1.09493
10.330	-2.235	147.83138	.00000	.00000	-.94945
10.330	-.231	147.83745	.00000	.00000	-.69515
10.330	1.826	147.87013	.00000	.00000	-.37191
10.330	3.860	147.90803	.00000	.00000	.04697
10.330	5.955	147.85898	.00000	.00000	.48849
10.330	7.972	147.83169	.00000	.00000	.94163
10.330	10.205	147.91547	.00000	.00000	1.36125
10.330	15.244	147.79710	.00000	.00000	1.88264
10.330	20.416	147.81597	.00000	.00000	1.85746
10.330	25.575	147.79795	.00000	.00000	1.66434
10.330	30.487	147.80603	.00000	.00000	1.45451
10.330	35.439	147.79795	.00000	.00000	1.25237
	GRADIENT	.00825	.00000	.00000	.14055

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01N79 LARC CFHT 118 (MA-22)

(SJA196) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = .000 SOFLAP = .000
 NO.JET = 1.000

RUN NO. 196/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.335	147.75502	157.67628	49.08875	-1.31324
10.330	-6.300	147.74238	157.65509	49.08635	-1.29194
10.330	-4.227	147.72954	157.83839	49.14769	-1.20170
10.330	-2.211	147.80279	157.57478	49.04129	-1.01742
10.330	-.176	147.75412	157.78764	49.12371	-.76516
10.330	1.988	147.79937	157.73689	49.09288	-.47278
10.330	3.833	147.74730	157.72703	49.10711	-.09166
10.330	5.985	147.75502	157.77778	49.12035	.40030
10.330	8.005	147.74168	157.68613	49.09625	.89683
10.330	10.080	147.78733	157.87927	49.14120	1.33048
10.330	15.081	147.79572	157.63538	49.06250	1.89500
10.330	20.224	147.74891	157.78764	49.12545	1.89385
10.330	25.426	147.78638	157.82852	49.12572	1.69014
10.330	30.542	147.78017	157.54373	49.03913	1.46274
10.330	35.663	147.75412	157.88914	49.15531	1.25218
	GRADIENT	.00170	-.00292	-.00147	.13581

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01N79 LARC CFHT 118 (MA-22)

(SJA197) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 197/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.354	147.72403	311.71813	97.06636	-1.41049
10.330	-6.259	147.79792	311.81964	97.04943	-1.40985
10.330	-4.218	147.81379	312.00314	97.09611	-1.32890
10.330	-2.228	147.72139	311.83913	97.10577	-1.18608
10.330	-.206	147.76135	312.32716	97.23144	-1.00971
10.330	1.890	147.77289	312.24517	97.19833	-.66179
10.330	3.939	147.79523	311.97189	97.09858	-.20488
10.330	6.015	147.78282	312.04215	97.12860	.32538
10.330	7.838	147.87135	311.81954	97.00123	.80086
10.330	10.079	147.79814	312.31545	97.20359	1.33176
10.330	15.115	147.83907	311.88988	97.04427	1.93433
10.330	20.195	147.88092	312.10464	97.08361	1.91761
10.330	25.366	147.87512	311.92114	97.03033	1.70711
10.330	30.456	147.83998	311.71813	96.99023	1.47633
10.330	35.649	147.83872	312.17490	97.13318	1.25926
	GRADIENT	.00078	.01662	.00466	.13593

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01N79 LARC CFHT 118 (MA-22)

(SJA198) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 180.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 199/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.323	147.87508	625.65771	194.62548	-1.68274
10.330	-6.087	147.86575	625.38816	194.55388	-1.75058
10.330	-4.258	147.95897	624.70506	194.21893	-1.73790
10.330	-2.207	148.03007	625.02126	194.22390	-1.63909
10.330	-.207	148.03022	625.40393	194.34262	-1.46606
10.330	2.076	148.04700	625.68099	194.40667	-1.06046
10.330	3.892	148.10889	625.80997	194.36550	-.60191
10.330	5.993	148.08217	625.26333	194.23076	.04032
10.330	7.988	148.10887	625.83324	194.37275	.71139
10.330	10.019	148.11244	625.17756	194.16443	1.32452
10.330	15.126	148.23577	625.77085	194.18700	2.01572
10.330	20.181	148.19040	625.96224	194.30586	1.97678
10.330	25.419	148.20287	625.11108	194.02532	1.73631
10.330	30.577	148.24457	626.01299	194.25060	1.49014
10.330	35.704	148.25105	624.76751	193.85566	1.26960
	GRADIENT	.01529	.13961	.02332	.13822

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01N49 LARC CFHT 118 (MA-22)

(SJA199) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 199/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.411	148.02016	154.37260	95.94827	-1.39868
10.330	-6.122	148.07144	154.22537	95.82357	-1.38727
10.330	-4.243	148.01424	154.57095	96.07540	-1.30610
10.330	-2.253	148.05878	154.32686	95.89482	-1.16360
10.330	-.019	148.09957	154.25429	95.82333	-.95264
10.330	1.794	148.14867	154.32686	95.83664	-.63727
10.330	3.863	148.12609	154.35501	95.86923	-.18855
10.330	5.989	148.10985	154.08275	95.71013	.32317
10.330	7.950	148.18350	154.32686	95.81412	.84350
10.330	10.109	148.17825	154.37761	95.84902	1.34130
10.330	15.181	148.18890	154.14314	95.69657	1.94769
10.330	20.267	148.22087	154.27611	95.75846	1.91646
10.330	25.247	148.21744	154.38726	95.82967	1.71356
10.330	30.578	148.17843	154.20353	95.74082	1.47132
10.330	35.481	148.17120	154.23501	95.76504	1.26608
	GRADIENT	.01548	-.02162	-.02346	.13588

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01N49 LARC CFHT 118 (MA-22)

(SJA200) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 60FLAP = .000
 NO.JET = 2.000

RUN NO. 200/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-8.107	148.09015	308.86389	191.87959	-1.61159
10.330	-6.227	148.11866	308.29848	191.49147	-1.67888
10.330	-4.223	148.17499	308.55223	191.57622	-1.64390
10.330	-2.199	148.17930	308.55223	191.57065	-1.50233
10.330	-.190	148.25208	308.65373	191.53959	-1.32444
10.330	2.085	148.27482	308.67302	191.52218	-.92092
10.330	3.892	148.33115	308.89534	191.58734	-.47946
10.330	6.046	148.31469	308.99685	191.67157	.18022
10.330	7.903	148.37668	308.96540	191.57199	.77689
10.330	10.193	148.38040	308.29334	191.15049	1.41280
10.330	15.244	148.42670	308.09549	190.96823	2.04081
10.330	20.354	148.43685	308.91465	191.46288	1.97672
10.330	25.450	148.36791	308.94609	191.57134	1.73537
10.330	30.577	148.41307	308.74307	191.38720	1.49081
10.330	35.630	148.44629	308.97753	191.48968	1.27299
	GRADIENT	.01982	.03893	-.00145	.14164

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01N49 LARC CFHT 118 (MA-22)

(SJA201) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = .000 BCFLAP = .000
 NO.JET = 2.000

R/N NO. 201/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.271	148.33283	621.02706	385.17763	-2.15148
10.330	-6.277	148.41922	621.29277	385.11814	-2.35217
10.330	-4.175	148.48417	620.46872	384.43910	-2.46083
10.330	-2.152	148.58493	617.63841	382.42595	-2.49885
10.330	-.155	148.64654	618.64142	382.88822	-2.42722
10.330	2.101	148.67860	619.11030	383.09579	-2.03006
10.330	3.943	148.69404	621.25393	384.38232	-1.43782
10.330	6.034	148.81737	616.92783	381.38935	-.49674
10.330	8.023	148.89308	619.89837	383.03089	.50149
10.330	10.072	148.90954	618.46258	382.10148	1.41522
10.330	15.140	148.91956	619.56710	382.75613	2.27236
10.330	20.277	148.92401	619.85962	382.92740	2.12112
10.330	25.280	148.97424	617.43538	381.30118	1.82535
10.330	30.408	148.97241	616.86291	380.75233	1.54420
10.330	35.691	149.00690	618.94597	381.1228	1.29745
	GRADIENT	.02505	.14658		.12242

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01N49 LARC CFHT 11B (MA-22)

(SJA202) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 202/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.487	148.01864	.00000	.00000	-1.23970
10.330	-6.269	148.00543	.00000	.00000	-1.19931
10.330	-4.249	148.00690	.00000	.00000	-1.09559
10.330	-2.239	148.03918	.00000	.00000	-.94406
10.330	-.225	148.04730	.00000	.00000	-.69842
10.330	2.000	148.00096	.00000	.00000	-.33332
10.330	4.094	148.05009	.00000	.00000	.07917
10.330	5.970	148.08267	.00000	.00000	.48089
10.330	7.925	148.09600	.00000	.00000	.93521
10.330	10.083	148.06152	.00000	.00000	1.34081
10.330	15.055	148.05162	.00000	.00000	1.87747
10.330	20.125	148.07526	.00000	.00000	1.86602
10.330	25.420	147.99662	.00000	.00000	1.66945
10.330	30.549	148.04751	.00000	.00000	1.44980
10.330	35.639	148.09226	.00000	.00000	1.24365
	GRADIENT	.00318	.00000	.00000	.14185

01N49 LARC CFHT 11B (MA-22)

(SJA203) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 203/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.338	148.04567	154.40656	95.95285	-1.36744
10.330	-.211	148.08302	154.34616	95.89112	-.98906
10.330	10.058	148.11061	154.50808	95.97383	1.32828
10.330	20.361	148.14475	154.22537	95.77615	1.91220
10.330	35.660	148.15663	154.24465	95.78044	1.25759
	GRADIENT	.00000	.00000	.00000	.00000

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01N49 LARC CFHT 118 (MA-22)

(SJA204) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 204/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.330	148.15386	154.35581	95.85126	-1.34630
10.330	-.182	148.13241	154.59993	96.01675	-.93031
10.330	9.959	148.13893	154.54918	95.98101	1.38337
10.330	20.347	148.11689	154.61926	96.03882	1.91704
10.330	35.685	148.10357	154.28576	95.84029	1.25812
	GRADIENT	.00000	.00000	.00000	.00000

01N49 LARC CFHT 118 (MA-22)

(SJA205) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 205/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.294	148.32464	154.64102	95.91780	-1.40516
10.330	-.209	148.22100	154.49842	95.89636	-.95355
10.330	10.230	148.15979	154.40656	95.87894	1.37859
10.330	20.326	148.21760	154.44767	95.86706	1.91268
10.330	35.771	148.21360	154.24465	95.74363	1.25339
	GRADIENT	.00000	.00000	.00000	.00000

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01N49 LARC CFHT 118 (MA-22)

(SJA206) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 206/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.379	147.96925	309.03548	192.14305	-1.56407
10.330	-.231	147.99629	308.73091	191.91862	-1.34059
10.330	10.037	148.02263	308.18476	191.54502	1.38298
10.330	20.386	148.09747	309.45364	192.23647	1.97255
10.330	35.701	148.15193	309.44157	192.15830	1.26804
	GRADIENT	.00000	.00000	.00000	.00000

01N49 LARC CFHT 118 (MA-22)

(SJA207) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 207/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.436	148.25149	308.63244	191.65125	-1.54254
10.330	-.132	148.21137	308.94609	191.77368	-1.29618
10.330	9.965	148.15130	308.94609	191.85144	1.41854
10.330	20.355	148.18831	309.16844	191.94156	1.98162
10.330	35.727	148.16960	309.25062	192.01683	1.26904
	GRADIENT	.00000	.00000	.00000	.00000

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01N49 LARC CFHT 118 (MA-22)

(SJA209) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 190.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 209/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.422	148.26100	308.97753	191.72900	-1.59179
10.330	-.178	148.25103	308.74307	191.59639	-1.30949
10.330	10.159	148.24238	309.14911	191.85956	1.38715
10.330	20.329	148.28097	308.69231	191.52621	1.97196
10.330	35.766	148.32238	308.73091	191.49668	1.26536
	GRADIENT	.00000	.00000	.00000	.00000

01N49 LARC CFHT 118 (MA-22)

(SJA209) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 209/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.232	147.93961	621.36735	386.41304	-2.01429
10.330	-.174	148.06358	620.87479	385.78345	-2.44408
10.330	10.071	148.13500	620.08664	385.10798	1.41924
10.330	20.363	148.17318	620.08664	385.00874	2.10985
10.330	35.810	148.29224	620.48069	384.94410	1.29108
	GRADIENT	.00000	.00000	.00000	.00000

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01N49 LARC CFHT 118 (MA-22)

(SJA210) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 210/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.282	148.61779	619.62987	383.57418	-2.01280
10.330	-.070	148.53158	619.16106	383.50643	-2.21468
10.330	10.027	148.47510	619.26257	383.71522	1.47772
10.330	20.351	148.42086	619.31332	383.88690	2.12457
10.330	35.831	148.37118	619.68063	384.24320	1.29170
	GRADIENT	.00000	.00000	.00000	.00000

01N49 LARC CFHT 118 (MA-22)

(SJA211) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 211/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.256	148.69767	619.05955	383.01526	-1.98638
10.330	-.142	148.67934	619.89837	383.58153	-2.32153
10.330	10.149	148.71807	620.21493	383.67747	1.46474
10.330	20.405	148.71712	619.62987	383.31799	2.10740
10.330	35.711	148.72359	619.51634	383.23108	1.29458
	GRADIENT	.00000	.00000	.00000	.00000

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01N83 LARC CFHT 118 (MA-22)

(SJA212) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 142.500
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 212/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.300	147.59820	157.40130	144.60621	-1.41092
10.330	-.200	147.66454	157.33087	144.47657	-1.08093
10.330	10.093	147.67353	157.18844	144.33698	1.34082
10.330	20.463	147.73963	157.13769	144.22583	1.91846
10.330	35.607	147.73389	157.28012	144.36216	1.26349
	GRADIENT	.00000	.00000	.00000	.00000

01N83 LARC CFHT 118 (MA-22)

(SJA213) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 142.500
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 213/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.484	147.84718	157.34071	144.30711	-1.39839
10.330	-.181	147.83419	157.04599	144.04946	-1.04512
10.330	10.078	147.78665	157.13769	144.17994	1.39238
10.330	20.429	147.81205	157.23920	144.24829	1.92449
10.330	35.645	147.72398	156.87410	143.99915	1.26291
	GRADIENT	.00000	.00000	.00000	.00000

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01N83 LARC CFHT 118 (MA-22)

(SJA214) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 142.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 214/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.488	147.87352	157.33087	144.27239	-1.45489
10.330	-.213	147.83419	157.14751	144.14258	-1.04409
10.330	10.029	147.84323	157.17862	144.16230	1.30914
10.330	20.263	147.88014	157.04599	144.00470	1.92195
10.330	35.663	147.87548	156.92486	143.89817	1.26087
	GRADIENT	.00000	.00000	.00000	.00000

01N83 LARC CFHT 118 (MA-22)

(SJA215) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 215/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.353	147.74524	.00000	.00000	-1.23635
10.330	-.245	147.72793	.00000	.00000	-.69734
10.330	9.987	147.73349	.00000	.00000	1.32618
10.330	20.282	147.75148	.00000	.00000	1.85813
10.330	35.479	147.70583	.00000	.00000	1.24855
	GRADIENT	.00000	.00000	.00000	.00000

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01N83 LARC CFHT 118 (MA-22)

(SJA216) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 216/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.508	147.78626	.00000	.00000	-1.22874
10.330	-.131	147.73750	.00000	.00000	-.64048
10.330	10.054	147.71980	.00000	.00000	1.40801
10.330	20.252	147.77531	.00000	.00000	1.87028
10.330	35.507	147.75457	.00000	.00000	1.24776
	GRADIENT	.00000	.00000	.00000	.00000

01N83 LARC CFHT 118 (MA-22)

(SJA217) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 217/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.521	147.75980	.00000	.00000	-1.24548
10.330	-.210	147.75297	.00000	.00000	-.69109
10.330	10.089	147.73441	.00000	.00000	1.36494
10.330	20.126	147.73698	.00000	.00000	1.86852
10.330	35.661	147.77784	.00000	.00000	1.24107
	GRADIENT	.00000	.00000	.00000	.00000

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01N83 LARC CFHT 118 (MA-22)

(SJA218) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 218/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.379	148.17215	.00000	.00000	-1.24364
10.330	-.229	147.99916	.00000	.00000	-.71010
10.330	10.041	148.09117	.00000	.00000	1.34615
10.330	20.248	148.08736	.00000	.00000	1.86345
10.330	35.616	148.05566	.00000	.00000	1.24398
	GRADIENT	.00000	.00000	.00000	.00000

01N83 LARC CFHT 118 (MA-22)

(SJA219) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 219/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.481	147.91782	.00000	.00000	-1.23301
10.330	-.099	147.96557	.00000	.00000	-.64737
10.330	10.216	147.95924	.00000	.00000	1.42769
10.330	20.341	147.97889	.00000	.00000	1.86940
10.330	35.648	147.99095	.00000	.00000	1.24376
	GRADIENT	.00000	.00000	.00000	.00000

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01N83 LARC CFHT 118 (MA-22)

(SJA220) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = .000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 220/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.495	147.90920	.00000	.00000	-1.25221
10.330	-.149	147.88614	.00000	.00000	-.70324
10.330	10.216	147.86380	.00000	.00000	1.38119
10.330	20.480	147.73954	.00000	.00000	1.85596
10.330	35.498	147.83518	.00000	.00000	1.24832
	GRADIENT	.00000	.00000	.00000	.00000

01N83 LARC CFHT 118 (MA-22)

(SJA221) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 285.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 221/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.245	148.18288	314.21845	287.53490	-1.67592
10.330	-.162	148.22426	314.34904	287.57593	-1.51114
10.330	10.261	148.32567	314.09532	287.14736	1.44571
10.330	20.285	148.35919	313.84161	286.85059	1.99795
10.330	35.610	148.39766	315.90231	288.65922	1.27942
	GRADIENT	.00000	.00000	.00000	.00000

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01N83 LARC CFHT 118 (MA-22)

(SJA222) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 285.000
 ELEVON = .000 BDCLAP = .000
 NO.JET = 3.000

RUN NO. 222/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.335	148.48648	314.82539	287.50309	-1.61799
10.330	-.188	148.49444	314.78604	287.45175	-1.47572
10.330	10.213	148.38756	314.52092	287.41652	1.50105
10.330	20.323	148.47831	314.39978	287.13022	2.00799
10.330	35.646	148.40573	315.18061	287.98410	1.28100
	GRADIENT	.00000	.00000	.00000	.00000

01N83 LARC CFHT 118 (MA-22)

(SJA223) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 285.000
 ELEVON = .000 BDCLAP = .000
 NO.JET = 3.000

RUN NO. 223/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.314	148.47578	314.55200	287.27413	-1.68113
10.330	-.176	148.49502	314.69282	287.36550	-1.47932
10.330	10.215	148.50573	313.70896	286.52860	1.43712
10.330	20.389	148.55965	313.96272	286.57407	1.99208
10.330	35.728	148.52866	314.19681	286.84758	1.27439
	GRADIENT	.00000	.00000	.00000	.00000

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01N83 LARC CFHT 118 (MA-22)

(SJA224) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 224/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.199	148.72789	629.75228	574.16539	-2.18851
10.330	-.128	148.91110	629.79164	573.49483	-3.00643
10.330	10.332	148.99255	629.79164	573.18131	1.53057
10.330	20.335	149.12056	629.71292	572.61769	2.17176
10.330	35.641	149.17537	630.46271	573.08885	1.31093
	GRADIENT	.00000	.00000	.00000	.00000

01N83 LARC CFHT 118 (MA-22)

(SJA225) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 570.000
 ELEVON = .000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 225/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.241	149.58470	631.32539	572.30267	-2.20521
10.330	-.109	149.48659	630.10749	571.57351	-2.82794
10.330	10.172	149.40438	630.66570	572.39465	1.56040
10.330	20.226	149.34904	629.43640	571.49062	2.19252
10.330	35.672	149.27756	629.08116	571.44158	1.31241
	GRADIENT	.00000	.00000	.00000	.00000

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01N83 LARC CFHT 118 (MA-22)

(SJA226) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 570.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 226/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.204	149.54865	631.37613	572.48662	-2.16446
10.330	-.117	149.60139	631.27464	572.19280	-2.79856
10.330	10.191	149.70681	630.87999	571.43243	1.58362
10.330	20.377	149.73952	630.20899	570.69997	2.16984
10.330	35.928	149.75911	629.98326	570.42092	1.29845
	GRADIENT	.00000	.00000	.00000	.00000

01N83 LARC CFHT 118 (MA-22)

(SJA227) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 227/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.333	148.29312	.00000	.00000	-1.23878
10.330	-6.199	148.25517	.00000	.00000	-1.19262
10.330	-4.326	148.28971	.00000	.00000	-1.10122
10.330	-2.281	148.26551	.00000	.00000	-.95110
10.330	-.158	148.30595	.00000	.00000	-.67456
10.330	2.061	148.24870	.00000	.00000	-.34113
10.330	3.852	148.29622	.00000	.00000	.02726
10.330	5.957	148.26458	.00000	.00000	.46880
10.330	8.085	148.29658	.00000	.00000	.97301
10.330	10.153	148.28786	.00000	.00000	1.34136
10.330	15.098	148.25936	.00000	.00000	1.88332
10.330	20.128	148.32152	.00000	.00000	1.87067
10.330	25.419	148.28103	.00000	.00000	1.67317
10.330	30.350	148.30816	.00000	.00000	1.46207
10.330	35.659	148.34518	.00000	.00000	1.24490
	GRADIENT	-.00033	.00000	.00000	.13814

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01N83 LARC CFHT 118 (MA-22)

(SJA228) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LPEF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREP = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 TQA = 570.000
 ELEVON = .000 FLAP = .000
 NOJET = 3.000

RUN NO. 228/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.271	148.82096	630.08476	574.10927	-2.37554
10.330	-6.180	148.93872	630.94755	574.44086	-2.64609
10.330	-3.982	149.06649	630.89679	573.90231	-2.84307
10.330	-2.119	149.14995	630.69379	573.39661	-2.97001
10.330	-1.128	149.21102	631.25206	573.66928	-3.04980
10.330	1.934	149.30853	630.54153	572.64932	-2.86512
10.330	4.008	149.34856	631.16185	573.05906	-2.15862
10.330	6.059	149.43070	630.74454	572.36536	-1.07341
10.330	8.047	149.47103	628.37067	570.05737	.27790
10.330	10.277	149.51013	628.77666	570.27650	1.50297
10.330	15.202	149.56792	630.13552	571.28812	2.39058
10.330	20.288	149.66519	630.03401	570.82485	2.18467
10.330	25.390	149.74776	630.09613	570.56635	1.85107
10.330	30.560	149.73496	628.87816	569.51214	1.55701
10.330	35.612	149.80381	630.13552	570.38853	1.31550
	GRADIENT	.03603	.01902	-.12115	.07509

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01N83 LARC CFHT 118 (MA-22)

(SJA229) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 285.000
ELEVON = .000 BOFLAP = .000
NO.JET = 3.000

RUN NO. 229/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.176	148.66898	314.48983	286.84410	-1.74305
10.330	-6.266	148.71365	314.52915	286.79379	-1.79747
10.330	-4.066	148.73970	314.08384	286.33759	-1.79699
10.330	-2.170	148.79106	314.08384	286.23876	-1.67728
10.330	-.183	148.82222	313.59595	285.73429	-1.51567
10.330	1.915	148.86692	314.24426	286.23902	-1.16191
10.330	4.129	148.92516	314.18534	286.07343	-.61326
10.330	5.942	148.96619	314.45874	286.24351	-.00373
10.330	8.042	148.95868	313.56480	285.44417	.78617
10.330	10.049	149.00727	314.17386	285.90534	1.38259
10.330	15.345	149.02016	314.15422	285.86274	2.07958
10.330	20.442	149.05768	313.62710	285.31126	1.99687
10.330	25.637	149.05895	313.77935	285.44733	1.74465
10.330	30.552	149.07586	314.10347	285.70977	1.50329
10.330	35.583	149.09467	313.64670	285.25830	1.28346
	GRADIENT	.02184	.01903	-.02465	.14201

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01N83 LARC CFHT 118 (MA-22)

(SJA230) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 142.500
 ELEVON = .000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 230/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.311	148.60927	157.54373	143.75233	-1.44083
10.330	-6.392	148.62727	157.38162	143.58702	-1.44577
10.330	-4.295	148.66916	157.37179	143.53760	-1.37127
10.330	-2.279	148.67813	158.06251	144.15890	-1.23468
10.330	-.148	148.65639	157.68613	143.83666	-1.04445
10.330	1.938	148.76000	157.67628	143.72750	-.71839
10.330	4.137	148.74548	157.59448	143.66696	-.22450
10.330	5.969	148.77753	157.47328	143.52555	.24735
10.330	8.076	148.84010	157.42254	143.41899	.86675
10.330	10.085	148.83712	157.78764	143.75448	1.34851
10.330	15.000	148.83388	157.58463	143.57265	1.95691
10.330	20.259	148.84083	157.34071	143.34373	1.93754
10.330	25.392	148.79668	157.42254	143.46083	1.71893
10.330	30.543	148.85339	157.48313	143.46138	1.48154
10.330	35.620	148.83433	157.58463	143.57222	1.26703
	GRADIENT	.01112	.00200	-.00892	.13369

01N79N78 LARC CFHT 118 (MA-22)

(SJA231) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 231/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.336	148.70653	156.67110	95.87387	-1.32923
10.330	-.231	148.74868	156.74144	95.88973	-.92069
10.330	10.028	148.75951	156.78240	95.90781	1.29051
10.330	20.297	148.79086	156.61058	95.78250	1.89763
10.330	35.628	148.80296	156.65151	95.79976	1.25558
	GRADIENT	.00000	.00000	.00000	.00000

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(SJA232) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 232/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.368	148.77795	156.72185	95.85988	-1.32381
10.330	-.113	148.82273	156.67110	95.79901	-.80328
10.330	10.066	148.79122	156.51884	95.72618	1.35750
10.330	20.128	148.78256	156.51884	95.73175	1.91083
10.330	35.673	148.83520	156.67110	95.79098	1.25574
	GRADIENT	.00000	.00000	.00000	.00000

01N79N78 LARC CFHT 118 (MA-22)

(SJA233) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 95.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 233/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.363	148.81190	156.68089	95.81197	-1.35347
10.330	-.237	148.80016	156.44667	95.67629	-.93888
10.330	10.208	148.81787	156.36659	95.61593	1.33744
10.330	20.277	148.87828	156.63014	95.73823	1.89375
10.330	35.640	148.76722	156.78240	95.90284	1.25488
	GRADIENT	.00000	.00000	.00000	.00000

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01N79N78 LARC CFHT 118 (MA-22)

(SJA234) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 234/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.382	148.68021	312.37791	191.19148	-1.45302
10.330	-.168	148.68852	312.29592	191.13062	-1.29791
10.330	10.164	148.76051	312.77227	191.32952	1.28464
10.330	20.227	148.80618	312.24517	190.94846	1.92246
10.330	35.700	148.89097	312.63167	191.07594	1.26003
	GRADIENT	.00000	.00000	.00000	.00000

01N79N78 LARC CFHT 118 (MA-22)

(SJA235) (12 JAN 76)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 235/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-10.409	148.94356	312.82303	191.12539	-1.44173
10.330	-.221	148.85276	312.42866	190.94956	-1.24673
10.330	9.957	148.89113	312.51063	191.00175	1.26343
10.330	20.293	148.89393	312.30763	190.87409	1.92817
10.330	35.749	148.90033	312.26468	190.83965	1.25946
	GRADIENT	.00000	.00000	.00000	.00000

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01N79N78 LARC CFHT 118 (MA-22)

(SJA238) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 236/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.405	148.99345	312.12415	190.63453	-1.51318
10.330	-.217	148.92268	312.86587	191.17836	-1.24332
10.330	10.020	148.98699	312.51063	190.87886	1.27522
10.330	20.273	148.99889	312.85423	191.07347	1.91774
10.330	35.755	148.99522	312.63167	190.94224	1.25755
	GRADIENT	.00000	.00000	.00000	.00000

01N79N78 LARC CFHT 118 (MA-22)

(SJA237) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 237/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-10.325	148.83166	626.35668	382.97266	-1.81831
10.330	-.211	148.97320	626.11450	382.46087	-2.06759
10.330	9.997	149.05577	625.00957	381.57442	1.09444
10.330	20.491	149.13166	626.06375	382.02351	1.97050
10.330	35.708	149.19388	625.95061	381.79518	1.27521
	GRADIENT	.00000	.00000	.00000	.00000

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(SJA238) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = -3.000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 238/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.424	149.35784	625.79834	381.28329	-1.73968
10.330	-.172	149.37043	624.55281	380.49234	-1.88363
10.330	9.965	149.26176	625.41559	381.29537	1.09325
10.330	20.314	149.24875	624.68165	380.88111	1.98845
10.330	35.725	149.18917	625.63024	381.61182	1.27694
	GRADIENT	.00000	.00000	.00000	.00000

01N79N78 LARC CFHT 118 (MA-22)

(SJA239) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = 3.000 T/QA = 380.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 239/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.401	149.41455	625.60695	381.02200	-1.81409
10.330	-.193	149.42036	625.86073	381.16175	-1.85801
10.330	10.035	149.48391	625.87236	381.00679	1.17768
10.330	20.492	149.50891	625.50544	380.71975	1.97711
10.330	35.730	149.48723	625.40393	380.71317	1.27329
	GRADIENT	.00000	.00000	.00000	.00000

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01N79N78 LARC CFHT 118 (MA-22)

(SJA240) (12 JAN 76)

REFERENCE DATA

SREF * 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 240/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.316	148.62269	.00000	.00000	-1.23632
10.330	-6.431	148.60871	.00000	.00000	-1.20130
10.330	-4.334	148.59723	.00000	.00000	-1.10277
10.330	-2.296	148.61681	.00000	.00000	-.95917
10.330	-.194	148.59596	.00000	.00000	-.69672
10.330	1.843	148.59213	.00000	.00000	-.35419
10.330	3.902	148.59905	.00000	.00000	.07490
10.330	5.995	148.62416	.00000	.00000	.52191
10.330	7.992	148.66977	.00000	.00000	.96818
10.330	10.117	148.62360	.00000	.00000	1.37829
10.330	15.075	148.62705	.00000	.00000	1.88980
10.330	20.322	148.66319	.00000	.00000	1.85639
10.330	25.309	148.60711	.00000	.00000	1.66415
10.330	30.428	148.63144	.00000	.00000	1.44297
10.330	35.574	148.60549	.00000	.00000	1.23244
	GRADIENT	-.00103	.00000	.00000	.14361

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01N79N78 LARC CFHT 118 (MA-22)

(SJA241) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = .000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 241/ 0 RN/L = .95 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.260	148.65877	156.29439	95.67407	-1.34137
10.330	-6.204	148.65367	156.41734	95.75262	-1.32766
10.330	-4.318	148.63752	156.63014	95.89330	-1.25073
10.330	-2.304	148.65391	156.53841	95.82658	-1.14678
10.330	-.176	148.69623	156.32561	95.66907	-.87776
10.330	1.981	148.67168	156.23386	95.62871	-.59809
10.330	3.850	148.71895	156.33538	95.66043	-.21210
10.330	5.948	148.72240	156.73165	95.90068	.28003
10.330	8.013	148.73601	156.48765	95.74263	.85348
10.330	9.973	148.72872	156.26508	95.61114	1.30170
10.330	15.113	148.73981	156.48765	95.74018	1.92049
10.330	20.359	148.78952	156.42712	95.67117	1.89124
10.330	25.318	148.75631	156.23386	95.57431	1.68775
10.330	30.374	148.72942	156.08159	95.49842	1.45966
10.330	35.560	148.78110	156.29439	95.59540	1.24453
	GRADIENT	.00870	-.04384	-.03244	.12706

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01N79N78 LARC CFHT 118 (MA-22)

(SJA242) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
ELEVON = .000 SOFLAP = 13.750
NO.JET = 2.000

RUN NO. 242/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.500	148.64540	312.22565	191.14304	-1.47085
10.330	-6.215	148.69048	312.65121	191.34554	-1.48499
10.330	-4.320	148.72542	312.63167	191.28863	-1.44105
10.330	-2.092	148.74120	312.53016	191.20623	-1.40974
10.330	-.170	148.75806	312.14366	190.94813	-1.29249
10.330	1.883	148.78192	312.23345	190.97242	-1.00975
10.330	3.939	148.82625	312.45988	191.05399	-.53376
10.330	5.949	148.86492	312.26469	190.88504	.07573
10.330	7.931	148.89131	311.74940	190.53627	.70808
10.330	10.062	148.89954	311.92114	190.63070	1.30941
10.330	15.079	148.95744	312.31545	190.79749	1.94737
10.330	20.336	148.93436	311.92114	190.58613	1.91481
10.330	25.307	148.99683	312.67076	190.96406	1.70375
10.330	30.364	148.95667	312.06166	190.64343	1.47136
10.330	35.570	149.02155	312.58092	190.87752	1.25095
	GRADIENT	.01181	-.03112	-.03421	.10773

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(5JA243) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 243/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.316	148.78144	626.21601	383.01589	-1.89874
10.330	-6.408	148.87528	626.03623	382.66458	-1.97729
10.330	-4.128	148.95062	625.87236	382.37091	-2.06830
10.330	-2.333	149.01747	626.27837	382.44732	-2.09052
10.330	-.212	149.01288	625.06033	381.71526	-1.99981
10.330	2.001	149.12640	624.84562	381.29366	-1.70069
10.330	4.141	149.20652	625.20091	381.30560	-1.11251
10.330	5.938	149.18441	625.79834	381.72654	-.42437
10.330	7.938	149.24053	626.41903	381.96146	.40188
10.330	10.069	149.27699	624.07256	380.43774	1.21549
10.330	15.168	149.31182	622.70208	379.51375	2.01971
10.330	20.110	149.34056	626.00137	381.45112	1.98388
10.330	25.333	149.38658	626.20440	381.45729	1.74080
10.330	30.433	149.42830	625.75922	381.07967	1.49098
10.330	35.669	149.38786	625.69682	381.14483	1.26212
	GRADIENT	.02984	-.13372	-.15806	.11178

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MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (MA-22)

(SJA244) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 1.000

RUN NO. 244/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.338	148.46192	.00000	.00000	-1.24351
10.330	-6.189	148.50236	.00000	.00000	-1.20459
10.330	-4.255	148.49459	.00000	.00000	-1.10118
10.330	-2.294	148.45562	-.05075	-.01573	-.96954
10.330	-.219	148.44295	-.05075	-.01573	-.71357
10.330	1.863	148.42107	-.05075	-.01573	-.37732
10.330	3.921	148.49578	-.05075	-.01572	.05366
10.330	6.106	148.49686	.00000	.00000	.52479
10.330	7.967	148.47635	.00000	.00000	.97453
10.330	9.997	148.41657	.00000	.00000	1.35558
10.330	15.104	148.42041	.00000	.00000	1.89037
10.330	20.229	148.42104	.00000	.00000	1.86107
10.330	25.291	148.39287	.00000	.00000	1.66382
10.330	30.342	148.40373	.00000	.00000	1.44635
10.330	35.635	148.42128	.00000	.00000	1.22950
	GRADIENT	-.00151	-.00490	-.00152	.14172

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01N79 LARC CFHT 118 (MA-22)

(SJA245) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 47.500
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 1.000

RUN NO. 245/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.438	148.19774	157.06729	48.75307	-1.29451
10.330	-6.323	148.04264	157.27029	48.86723	-1.28422
10.330	-4.326	148.14015	156.86430	48.70899	-1.19584
10.330	-2.156	148.10531	156.87410	48.72350	-1.01343
10.330	-.224	148.13763	157.12786	48.79166	-.77633
10.330	1.849	148.05929	156.97561	48.77018	-.48046
10.330	3.907	148.16022	157.01655	48.74967	-.06439
10.330	6.070	148.15065	156.97561	48.74010	.42493
10.330	7.952	148.04920	157.05729	48.80199	.90805
10.330	10.031	148.14344	156.74144	48.66976	1.34607
10.330	15.146	148.04886	156.99523	48.77971	1.92046
10.330	20.090	148.14452	157.01655	48.75483	1.89909
10.330	25.408	148.04745	156.76280	48.70796	1.68101
10.330	30.515	148.06423	157.07711	48.80009	1.45183
10.330	35.654	148.03934	156.88391	48.74826	1.23936
	GRADIENT	-.00034	.01962	.00620	.13650

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01N79 LARC CFHT 118 (MA-22)

(SJA248) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 1.000

RUN NO. 246/ 0 RN/L = .94 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.359	147.81654	312.63167	97.28990	-1.38998
10.330	-6.430	147.79836	311.87039	97.06625	-1.39021
10.330	-4.075	147.82896	312.04215	97.09828	-1.31541
10.330	-2.245	147.87366	312.63167	97.25232	-1.17680
10.330	-.125	147.86736	312.02264	97.06700	-.98066
10.330	2.016	147.89907	312.09290	97.06804	-.62300
10.330	3.881	147.90214	311.97189	97.02839	-.21063
10.330	5.819	147.88937	312.25689	97.12542	.27771
10.330	7.973	147.89620	312.20614	97.10515	.89733
10.330	10.022	147.93494	312.14366	97.06029	1.36645
10.330	15.135	147.90088	312.32716	97.13971	1.95164
10.330	20.110	147.94829	312.27640	97.09280	1.92015
10.330	25.503	147.86286	311.97189	97.05417	1.69037
10.330	30.407	147.92251	312.10464	97.05631	1.46613
10.330	35.555	147.86286	312.27640	97.14890	1.24950
	GRADIENT	.00847	-.03514	-.01649	.13699

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(SJA247) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = 13.750
 NO.JET = 1.000

RUN NO. 247/ 0 RN/L = .93 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.165	147.95019	624.46302	194.15520	-1.66667
10.330	-6.275	147.95052	625.66935	194.52983	-1.72103
10.330	-4.241	147.99045	624.69336	194.17397	-1.69979
10.330	-2.266	147.87395	625.46634	194.56741	-1.59798
10.330	-.161	147.96865	625.61860	194.46393	-1.37410
10.330	1.900	147.96202	624.59185	194.17972	-1.02636
10.330	3.941	148.01656	625.60695	194.42365	-.49502
10.330	6.138	148.06466	625.46634	194.31680	.17584
10.330	8.047	148.01257	625.40393	194.36579	.82888
10.330	10.036	148.08163	625.15016	194.19631	1.39277
10.330	15.115	148.03894	625.50544	194.36140	2.03261
10.330	20.253	148.09667	624.45130	193.95952	1.97374
10.330	25.344	148.14911	625.11108	194.09572	1.72960
10.330	30.644	148.17451	625.20091	194.09034	1.47368
10.330	35.745	148.13962	625.26333	194.15544	1.25441
	GRADIENT	.00696	.04560	.00503	.14533

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(SJA248) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 248/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.30F	148.45826	164.68990	95.84652	-1.43127
10.330	-6.13J	148.49639	164.65973	95.80435	-1.49711
10.330	-4.273	148.50032	164.74065	95.84890	-1.43324
10.330	-2.087	148.47514	164.70019	95.84161	-1.32971
10.330	-.229	148.51655	164.34491	95.60820	-1.15787
10.330	1.993	148.59364	164.19264	95.47006	-.78601
10.330	3.894	148.58885	164.38538	95.58521	-.36839
10.330	6.085	148.60962	164.32436	95.53638	.21590
10.330	8.044	148.65432	164.19264	95.43109	.77872
10.330	10.040	148.66023	164.39566	95.54529	1.28263
10.330	15.114	148.62751	164.33463	95.53085	1.95250
10.330	20.292	148.64479	164.14189	95.40771	1.92367
10.330	25.308	148.61016	164.23313	95.48299	1.70600
10.330	30.413	148.68864	164.27361	95.45611	1.47053
10.330	35.485	148.68545	164.07062	95.34021	1.25494
	GRADIENT	.01448	-.05967	-.04404	.13067

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01N85N50 LARC CFHT 118 (MA-22)

(SJA249) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 249/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.422	148.63883	328.77077	191.10615	-1.76821
10.330	-6.333	148.69207	330.00944	191.75747	-1.83472
10.330	-4.305	148.77606	330.44558	191.90250	-1.85608
10.330	-2.131	148.86665	330.12044	191.59701	-1.85906
10.330	-.217	148.88325	330.03957	191.52872	-1.72889
10.330	2.045	148.94625	330.26322	191.57744	-1.49689
10.330	3.879	148.98837	330.39483	191.59960	-1.08929
10.330	5.792	149.05863	329.98881	191.27395	-.43534
10.330	7.965	149.06488	329.75567	191.13080	.53118
10.330	10.008	149.08946	330.34408	191.44028	1.20720
10.330	15.113	149.15504	329.80642	191.04466	2.04730
10.330	20.227	149.16499	329.90793	191.09072	2.00077
10.330	25.254	149.16982	329.91744	191.09004	1.75109
10.330	30.332	149.16766	329.83656	191.04595	1.49781
10.330	35.581	149.23336	329.98881	191.05000	1.26155
	GRADIENT	.02451	.00185	-.03049	.09145

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(SJA250) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
ELEVON = .000 BOFLAP = 13.750
NO.JET = 2.000

RUN NO. 250/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.341	148.66146	444.15759	258.13829	-1.99279
10.330	-6.242	148.76447	443.19324	257.39947	-2.12702
10.330	-4.253	148.87789	442.91178	257.04003	-2.25031
10.330	-2.162	148.96498	443.37322	257.15739	-2.27768
10.330	-.194	149.03531	443.01328	256.82737	-2.25510
10.330	2.040	149.09927	443.62701	257.07284	-2.04765
10.330	3.884	149.16247	442.10427	256.08190	-1.65759
10.330	5.790	149.28234	442.32586	256.00452	-.94928
10.330	7.992	149.32068	443.05940	256.36323	.29835
10.330	10.015	149.39078	442.96253	256.18691	1.12668
10.330	15.106	149.41218	443.02255	256.18492	2.10768
10.330	20.293	149.44223	442.91640	256.07204	2.05058
10.330	25.275	149.51170	443.21629	256.12635	1.77888
10.330	30.370	149.55846	442.22890	255.47586	1.51203
10.330	35.686	149.60251	442.78720	255.72307	1.27120
	GRADIENT	.03435	-.06269	-.09551	.06865

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01N49 LARC CFHT 118 (MA-22)

(SJA251) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 251/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.303	148.36082	155.06642	96.15821	-1.37831
10.330	-6.372	148.36855	154.94553	96.07824	-1.37669
10.330	-4.324	148.43638	155.19929	96.19161	-1.29304
10.330	-2.164	148.45211	155.26945	96.22490	-1.13205
10.330	-.214	148.45544	155.03735	96.07890	-.93701
10.330	2.011	148.47482	155.04704	96.07237	-.55775
10.330	3.876	148.43340	155.14854	96.16209	-.15267
10.330	6.008	148.45907	155.21870	96.18894	.38675
10.330	8.015	148.47496	155.00597	96.04683	.91182
10.330	10.013	148.49798	155.15824	96.12628	1.34498
10.330	15.334	148.50214	155.21870	96.16104	1.97104
10.330	20.367	148.46375	155.15824	96.14844	1.91545
10.330	25.401	148.50303	154.95522	95.99723	1.69464
10.330	30.457	148.47444	155.11718	96.11607	1.46473
10.330	35.547	148.64004	155.15824	96.03440	1.25074
	GRADIENT	.00092	-.01577	-.01037	.13844

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01N49 LARC CFHT 118 (MA-22)

(SJA252) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 252/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.325	148.56278	309.45364	191.63437	-1.55727
10.330	-6.431	148.54844	309.53580	191.70375	-1.63478
10.330	-4.141	148.60361	309.48505	191.60116	-1.58914
10.330	-2.202	148.62388	309.14911	191.36707	-1.45074
10.330	-.199	148.61569	309.18054	191.39708	-1.26601
10.330	2.081	148.66179	309.02828	191.24350	-.86314
10.330	3.883	148.73813	309.02828	191.14534	-.40688
10.330	6.078	149.71426	309.15633	191.25524	.24925
10.330	7.862	149.78588	308.48929	190.75072	.82535
10.330	10.017	148.81562	308.93396	190.98750	1.43162
10.330	15.315	143.79678	308.76237	190.90559	2.05890
10.330	20.270	148.85478	308.15327	190.45475	1.98427
10.330	25.261	148.85458	308.43854	190.63132	1.73492
10.330	30.548	148.84084	308.54005	190.71168	1.47919
10.330	35.638	148.87030	308.26700	190.50518	1.25869
	GRADIENT	.01504	-.05084	-.05082	.14516

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01N49 LARC CFHT 11B (MA-22)

(SJA253) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 380.000
 ELEVON = .000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 253/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.258	148.72153	624.80657	386.50895	-2.09273
10.330	-6.376	148.80415	620.68371	383.74535	-2.26876
10.330	-4.079	148.89039	618.53991	382.19841	-2.37615
10.330	-2.186	148.94469	619.19720	382.46506	-2.36564
10.330	-.073	148.96162	618.29822	381.86638	-2.23851
10.330	1.938	149.05855	617.10650	380.88764	-1.90464
10.330	3.954	149.08583	619.77012	382.45653	-1.20862
10.330	6.145	149.14315	617.99369	381.21374	-.24367
10.330	7.919	149.20226	621.06286	382.95521	.62654
10.330	10.087	149.22670	620.68371	382.65873	1.56678
10.330	15.123	149.25852	618.52542	381.24683	2.29319
10.330	20.389	149.31689	618.90728	381.33307	2.11926
10.330	25.351	149.25812	619.83288	382.05375	1.81510
10.330	30.424	149.27838	617.08010	380.30536	1.53201
10.330	35.714	149.30869	620.88673	382.57370	1.28258
	GRADIENT	.02488	.01683	-.05342	.13874

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01N83 LARC CFHT 118 (MA-22)

(SJA254) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 142.500
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 3.000

RUN NO. 254/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.360	148.41218	157.07711	143.51690	-1.43365
10.330	-6.274	148.41469	157.03618	143.47708	-1.43367
10.330	-4.258	148.43999	157.19827	143.60069	-1.35610
10.330	-2.277	148.42915	156.80200	143.24916	-1.22487
10.330	-.167	148.44777	157.15733	143.55577	-1.02771
10.330	1.679	148.45952	157.22937	143.61020	-.68041
10.330	3.913	148.50507	156.94448	143.30602	-.23208
10.330	5.908	148.48955	156.91334	143.29256	.28651
10.330	8.088	148.54247	156.99523	143.31627	.91627
10.330	10.091	148.57127	156.77085	143.08370	1.37929
10.330	15.122	148.56741	156.99523	143.29221	1.98178
10.330	20.092	148.56957	157.03618	143.32751	1.93768
10.330	25.285	148.56794	156.92486	143.22747	1.71121
10.330	30.409	148.55368	156.99523	143.30546	1.47318
10.330	35.532	148.60771	157.17862	143.42069	1.25536
	GRADIENT	.00784	-.00346	-.01074	.13626

OINB3 LARC CFHT 118 (MA-22)

(SJA253) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 285.000
 ELEVON = .000 BDFLAP = 13.750
 NO.JET = 3.000

RUN NO. 255/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.370	148.65509	314.19350	286.60060	-1.70931
10.330	-6.300	148.70723	314.64208	286.90915	-1.76813
10.330	-4.291	148.76711	314.70109	286.84745	-1.76025
10.330	-2.059	148.80786	314.70109	286.76891	-1.64267
10.330	-.187	148.88256	314.22462	286.19106	-1.45731
10.330	2.003	148.92983	314.11162	285.99734	-1.04857
10.330	3.896	148.97328	314.35723	286.13749	-.58163
10.330	6.080	149.01502	314.34578	286.04691	.16496
10.330	7.881	149.03816	314.18203	285.85352	.79523
10.330	10.082	149.07332	313.59595	285.25299	1.47004
10.330	15.131	149.05703	314.04123	285.68924	2.11748
10.330	20.119	149.05143	313.29144	285.01785	2.01784
10.330	25.367	149.07896	314.15090	285.74697	1.74940
10.330	30.470	149.10576	313.66631	285.25491	1.49457
10.330	35.642	149.12575	313.49445	285.06041	1.26638
	GRADIENT	.02609	-.06247	-.10712	.14388

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01N83 LARC CFHT 118 (MA-22)

(SJA256) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = .000 BOFLAP = 13.750
 NO.JET = 3.000

RUN NO. 256/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.337	148.85945	630.06203	573.94012	-2.35915
10.330	-6.262	148.97565	630.91360	574.26756	-2.63795
10.330	-4.230	149.12130	630.30446	573.15275	-2.80442
10.330	-1.999	149.24112	630.23702	572.63132	-2.97711
10.330	-.134	149.29878	630.17491	572.35375	-2.98855
10.330	2.077	149.30596	631.43250	573.16127	-2.65233
10.330	3.990	149.44071	629.88699	571.54890	-1.96668
10.330	6.136	149.55295	631.11665	572.23490	-.74343
10.330	7.943	149.62259	630.28777	571.21735	.46121
10.330	10.111	149.67937	630.87416	571.53189	1.66214
10.330	15.405	149.73981	630.87416	571.30120	2.45219
10.330	20.399	149.79442	630.69923	570.93457	2.20563
10.330	25.444	149.87925	631.31410	571.16773	1.84968
10.330	30.461	149.92793	631.43405	570.18633	1.55269
10.330	35.565	149.92353	629.88176	569.70354	1.30385
GRADIENT		.03829	.02041	-.12831	.09652

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01N83 LARC CFHT 118 (MA-22)

(SJA257) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = .000 BDFLAP = -14.250
 NO.JET = 3.000

RUN NO. 257/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.445	148.46152	-.15227	-.13908	-1.24513
10.330	-6.367	148.40112	-.20302	-.18551	-1.21076
10.330	-4.129	148.39805	-.20305	-.18554	-1.09498
10.330	-2.114	148.42405	-.20299	-.18545	-.94922
10.330	-.231	148.41882	-.10152	-.09275	-.71415
10.330	1.940	148.43566	-.15228	-.13911	-.36011
10.330	3.852	148.44992	-.25378	-.23181	.00655
10.330	5.808	148.46752	-.20305	-.18545	.41528
10.330	7.973	148.42531	-.15225	-.13909	.92282
10.330	9.984	148.43349	-.10153	-.09275	1.29021
10.330	15.250	148.42984	-.10154	-.09276	1.87984
10.330	20.277	148.45466	-.15228	-.13909	1.85989
10.330	25.239	148.46030	-.10153	-.09274	1.67631
10.330	30.570	148.43872	-.20302	-.18546	1.44920
10.330	35.661	148.43005	-.10151	-.09274	1.24471
	GRADIENT	.00578	-.00266	-.00242	.13960

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01N83 LARC CFHT 118 (MA-22)

(SJA258) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 142.500
 ELEVON = .000 BDFLAP = -14.250
 NO.JET = 3.000

RUN NO. 258/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.138	148.41237	157.89901	144.26766	-1.47159
10.330	-6.241	148.38345	158.05128	144.43493	-1.47386
10.330	-4.236	148.44235	158.14158	144.46011	-1.39475
10.330	-2.240	148.42078	157.85813	144.22214	-1.29093
10.330	-.111	148.41988	157.81723	144.18564	-1.09755
10.330	1.866	148.47991	158.06116	144.35012	-.76110
10.330	3.976	148.50916	157.63538	143.93292	-.31537
10.330	5.968	148.48492	158.02028	144.30792	.18894
10.330	7.967	148.48456	157.95964	144.25289	.76129
10.330	10.151	148.53896	157.93065	144.22837	1.28224
10.330	14.990	146.55341	157.45206	143.72271	1.92570
10.330	20.347	148.54961	157.80737	144.05072	1.91804
10.330	25.297	148.54487	157.99065	144.22263	1.71477
10.330	30.424	148.53692	157.70585	143.97035	1.48227
10.330	35.771	148.56990	157.80737	144.03105	1.25836
	GRADIENT	.00938	-.03961	-.04529	.13103

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01N83 LARC CFHT 118 (MA-22)

(SJA259) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BDFLAP = -14.250
 NO.JET = 3.000

RUN NO. 259/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.371	150.28594	.00000	.00000	-1.24886
10.330	-6.452	150.22873	.00000	.00000	-1.22070
10.330	-4.300	150.22780	.00000	.00000	-1.11625
10.330	-2.299	150.17493	.00000	.00000	-.96162
10.330	-.146	150.21135	.00000	.00000	-.68727
10.330	2.032	150.19859	.00000	.00000	-.36678
10.330	3.911	150.16932	.00000	.00000	.02501
10.330	6.028	150.15154	.00000	.00000	.47352
10.330	7.987	150.14489	.00000	.00000	.92917
10.330	10.179	150.08922	.00000	.00000	1.32790
10.330	15.131	150.14203	.00000	.00000	1.87666
10.330	20.146	150.12159	.00000	.00000	1.86613
10.330	25.418	150.07395	.00000	.00000	1.66910
10.330	30.596	150.09223	.00000	.00000	1.44885
10.330	35.717	150.03878	.00000	.00000	1.24235
	GRADIENT	-.00449	.00000	.00000	.13842

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OIN83 LARC CFHT 118 (MA-22)

(SJA260) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6600 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 285.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 3.000

RUN NO. 260/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.294	150.15961	313.93159	283.49250	-1.76657
10.330	-6.372	150.22493	314.28683	283.68989	-1.83565
10.330	-4.211	150.27548	313.77935	283.13654	-1.84135
10.330	-2.203	150.24814	314.75497	284.06857	-1.74817
10.330	-.182	150.29423	314.50126	283.75254	-1.59726
10.330	1.906	150.34818	314.03309	283.22848	-1.28335
10.330	3.974	150.40526	314.15422	283.23020	-.75637
10.330	6.012	150.40714	313.39295	282.54033	-.07322
10.330	8.013	150.45597	314.19681	283.17312	.66684
10.330	10.248	150.46445	314.15422	283.11878	1.35777
10.330	15.397	150.44760	314.67316	283.61822	2.03745
10.330	20.475	150.45821	314.47017	283.41527	1.97937
10.330	25.581	150.49588	314.20498	283.10538	1.74029
10.330	30.735	150.45437	314.21645	283.19383	1.49193
10.330	35.782	150.46686	314.31794	283.26179	1.27381
	GRADIENT	.01762	.00062	-.03266	.12897

01N83 LARC CFHT 118 (MA-22)

(SJA261) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = .000 BOFLAP = -14.250
 NGJET = 3.000

RUN NO. 261/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.262	149.94214	630.07340	569.80614	-2.40246
10.330	-6.328	150.02677	630.04538	569.45938	-2.67608
10.330	-4.159	150.18119	631.41560	570.11105	-2.86451
10.330	-2.166	150.23621	630.49078	569.06754	-3.03573
10.330	-.123	150.40442	629.03041	567.11446	-3.12983
10.330	1.974	150.39194	630.44003	568.43250	-3.01734
10.330	3.883	150.41133	631.03222	568.89310	-2.49245
10.330	6.185	150.46262	631.47762	569.10058	-1.28755
10.330	8.038	150.60974	631.41560	568.48884	.05964
10.330	10.131	150.60965	630.60362	567.75811	1.22666
10.330	15.211	150.67586	629.62800	566.63062	2.32357
10.330	20.263	150.70753	631.04905	567.79015	2.16521
10.330	25.668	150.73536	631.20131	567.82229	1.82403
10.330	30.644	150.79499	630.14688	566.64957	1.54727
10.330	35.736	150.91174	629.94388	566.02879	1.30916
GRADIENT		.03051	-.04082	-.15238	.03712

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01N49 LARC CFHT 118 (MA-22)

(SJA262) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0300 IN. YO
 BREF = 93E.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BDFLAP = -14.250
 NO.JET = 2.300

RUN NO. 262/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.320	150.28729	154.73285	94.72139	-1.40313
10.330	-6.325	150.26607	155.13884	94.98334	-1.40019
10.330	-4.226	150.22256	154.86574	94.84359	-1.32397
10.330	-2.228	150.25254	154.68210	94.71223	-1.18896
10.330	-.207	150.28138	154.77393	94.75027	-1.00894
10.330	1.850	150.26291	154.53952	94.61839	-.68259
10.330	4.077	150.32843	154.73285	94.69547	-.20870
10.330	5.932	150.30670	154.58061	94.61598	.24140
10.330	8.071	150.29509	154.62169	94.64844	.83455
10.330	10.180	150.29338	154.74252	94.72348	1.28856
10.330	15.122	150.28377	154.85371	94.79760	1.91790
10.330	20.308	150.25701	154.68210	94.70941	1.91543
10.330	25.439	150.31917	154.58061	94.60813	1.70267
10.330	30.556	150.30280	154.38726	94.50009	1.47211
10.330	35.620	150.29624	154.70144	94.69353	1.26204
	GRADIENT	.01079	-.01927	-.01860	.13297

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01N49 LARC CFHT 118 (MA-22)

(SJA263) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 263/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.436	150.28045	309.61795	189.54462	-1.59734
10.330	-6.306	150.32537	309.26271	189.27057	-1.68417
10.330	-4.245	150.34252	309.23129	189.22975	-1.65632
10.330	-2.263	150.35067	309.80158	189.56846	-1.52579
10.330	-.206	150.39559	310.00456	189.63600	-1.36156
10.330	1.880	150.43200	309.26271	189.13641	-1.03707
10.330	3.836	150.48520	309.25062	189.06216	-.57081
10.330	6.002	150.42808	309.33279	189.18420	.05060
10.330	7.984	150.47510	309.56720	189.26840	.69974
10.330	10.183	150.50116	309.51645	189.20461	1.33205
10.330	15.151	150.48634	309.00897	188.91299	1.99208
10.330	20.164	150.47979	309.43430	189.18125	1.96663
10.330	25.480	150.50598	309.58655	189.24140	1.72776
10.330	30.643	150.49216	308.98965	188.89388	1.48518
10.330	35.715	150.48796	309.53580	189.23303	1.26830
	GRADIENT	.01806	-.02518	-.03812	.13089

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01N49 LARC CFHT 118 (MA-22)

(SJA254) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 264/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.278	150.39313	618.56408	378.39424	-2.11807
10.330	-6.385	150.43110	620.91061	379.73380	-2.31015
10.330	-4.245	150.54397	617.23236	377.20126	-2.40779
10.330	-2.201	150.58960	619.00879	378.17225	-2.47748
10.330	-.164	150.63774	618.48676	377.73257	-2.43740
10.330	1.925	150.68149	618.71634	377.76307	-2.13445
10.330	3.845	150.72517	619.98514	378.42804	-1.58559
10.330	5.978	150.75801	617.94294	377.09936	-.71399
10.330	8.098	150.80685	619.42687	377.88251	.37714
10.330	10.095	150.86235	617.65055	376.66024	1.27262
10.330	15.249	150.86827	617.86569	376.77665	2.19829
10.330	20.251	150.94283	619.88363	377.82049	2.09780
10.330	25.589	150.95113	616.25579	375.58865	1.79439
10.330	30.630	150.94849	617.85356	376.56903	1.52572
10.330	35.723	150.96198	618.24747	376.77543	1.29392
	GRADIENT	.02237	.25573	.10007	.09731

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MA22 - FORCE SOURCE DATA TABULATION

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Q1N85N50 LARC CFHT 118 (MA-22)

(SJA265) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 935.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 265/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.289	150.23381	164.43614	94.56781	-1.47191
10.330	-6.314	150.22829	164.43614	94.57128	-1.56124
10.330	-4.230	150.29045	164.33463	94.47381	-1.47559
10.330	-2.235	150.28690	164.43614	94.53440	-1.40458
10.330	-.226	150.33858	164.53764	94.56024	-1.24615
10.330	1.843	150.36437	164.27361	94.39231	-.97254
10.330	3.909	150.41053	164.47661	94.47995	-.50242
10.330	6.061	150.43260	164.36484	94.40189	.08278
10.330	7.882	150.43336	164.63914	94.55896	.58746
10.330	10.013	150.44745	164.29415	94.35198	1.16319
10.330	15.156	150.47288	164.64944	94.53997	1.90702
10.330	20.193	150.51201	164.60897	94.49223	1.92059
10.330	25.491	150.48917	164.19264	94.26754	1.70499
10.330	30.462	150.45830	164.28388	94.33928	1.47987
10.330	35.587	150.46705	164.48689	94.45036	1.26491
GRADIENT		.01562	.00584	-.00646	.11714

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01N85N50 LARC CFHT 118 (MA-22)

(SJA266) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
ELEVON = .000 BDFLAP = -14.250
NO.JET = 2.000

RUN NO. 266/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-9.407	150.34790	330.03957	189.66290	-1.80995
10.330	-6.249	150.40901	330.54709	189.87737	-1.88439
10.330	-4.127	150.51045	330.51699	189.73213	-1.95615
10.330	-2.302	150.57944	330.63917	189.71530	-1.98652
10.330	-.149	150.62695	330.37418	189.50347	-1.87217
10.330	1.906	150.64182	330.59784	189.61304	-1.69029
10.330	4.106	150.69577	330.56775	189.52790	-1.21843
10.330	5.974	150.73759	330.36473	189.35895	-.63806
10.330	7.967	150.81361	329.80642	188.94365	.29067
10.330	10.006	150.82359	330.46624	189.30913	1.00420
10.330	15.167	150.84682	330.30451	189.18734	1.96393
10.330	20.176	150.82049	330.16171	189.13857	1.97497
10.330	25.488	150.83545	330.36473	189.23610	1.73645
10.330	30.456	150.84562	330.55832	189.33422	1.49904
10.330	35.781	150.87498	330.34408	189.17469	1.26916
	GRADIENT	.02085	.00269	-.02471	.08697

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01N85N50 LARC CFHT 118 (MA-22)

(SJA267) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 267/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.266	150.41637	444.48212	255.30151	-2.03812
10.330	-6.145	150.56179	443.72381	254.63125	-2.21180
10.330	-4.191	150.65288	444.12982	254.71014	-2.33807
10.330	-2.187	150.71133	442.78720	253.84166	-2.40169
10.330	-.182	150.82201	443.57155	254.10470	-2.42545
10.330	1.860	150.87650	443.54383	253.99706	-2.29103
10.330	3.957	150.90096	443.04098	253.66797	-1.89812
10.330	5.919	150.95399	443.39626	253.76539	-1.19896
10.330	8.055	151.03073	443.29475	253.59519	.00090
10.330	10.106	151.04158	443.82531	253.88046	.89501
10.330	14.996	151.09600	443.83005	253.79173	1.99172
10.330	20.323	151.17385	443.41930	253.42628	2.01757
10.330	25.392	151.21813	443.57155	253.43907	1.76593
10.330	30.641	151.24347	444.20834	253.76038	1.50434
10.330	35.716	151.29425	443.31779	253.16664	1.28067
	GRADIENT	.03245	-.06987	-.09473	.04913

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01N79 LARC CFHT 118 (MA-22)

(SJA268) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 47.500
 ELEVON = .000 BDFLAP = -14.250
 NO.JET = 1.000

RUN NO. 268/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.458	150.20982	156.63014	47.96615	-1.30268
10.330	-6.319	150.20239	156.54820	47.94342	-1.28789
10.330	-4.176	150.20396	156.56959	47.94852	-1.19857
10.330	-2.323	150.17403	156.38614	47.90284	-1.05701
10.330	-.053	150.14948	156.34515	47.89811	-.77689
10.330	1.784	150.19127	156.48765	47.92843	-.53147
10.330	3.890	150.14111	156.58917	47.97555	-.10479
10.330	5.897	150.13987	156.53841	47.96039	.32540
10.330	8.032	150.13701	156.64972	47.99541	.86181
10.330	10.071	150.17005	156.46809	47.92921	1.28135
10.330	15.352	150.18744	156.39591	47.90155	1.89812
10.330	20.402	150.16299	156.32561	47.88782	1.88430
10.330	25.252	150.12950	156.47787	47.94515	1.69444
10.330	30.466	150.15868	156.78065	48.02859	1.46558
10.330	35.535	150.12579	156.63014	47.99299	1.25768
GRADIENT		-.00573	.00696	.00396	.13420

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(SJA259) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.5800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 1.000

RUN NO. 269/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.433	150.09747	311.80015	95.55662	-1.38295
10.330	-6.332	150.10791	312.31545	95.70788	-1.36974
10.330	-4.203	150.10030	312.74107	95.84317	-1.30359
10.330	-2.338	150.14531	312.67076	95.79290	-1.19292
10.330	-.168	150.12905	312.02264	95.60469	-.99793
10.330	1.884	150.19022	312.62000	95.74871	-.67348
10.330	4.046	150.20757	312.25689	95.62645	-.21667
10.330	5.957	150.15977	312.51848	95.73703	.24136
10.330	7.938	150.20611	311.87812	95.51138	.77767
10.330	10.105	150.18319	311.87039	95.52359	1.28758
10.330	15.102	150.17520	311.81964	95.51313	1.90982
10.330	20.140	150.25857	312.02264	95.52228	1.91193
10.330	25.276	150.23525	312.24517	95.60524	1.70755
10.330	30.465	150.23315	312.11242	95.56593	1.47357
10.330	35.569	150.22316	311.90938	95.51012	1.26240
	GRADIENT	.01247	-.04933	-.02306	.13053

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01N79 LARC CFHT 118 (MA-22)

(SJA270) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 ØREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 ØØFLAP = -14.250
 NO.JET = 1.000

RUN NO. 270/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.363	150.30696	625.95061	191.56616	-1.63739
10.330	-6.409	150.36901	625.78670	191.43697	-1.70807
10.330	-4.268	150.33211	624.68165	191.14582	-1.70679
10.330	-2.236	150.37642	625.60695	191.37255	-1.61856
10.330	-.234	150.34681	626.37988	191.64673	-1.44263
10.330	2.035	150.40298	626.20440	191.52148	-1.06059
10.330	3.791	150.41761	626.16526	191.49088	-.64833
10.330	5.976	150.47304	624.94713	191.04796	-.02023
10.330	7.972	150.47379	625.98974	191.36573	.63853
10.330	10.176	150.43986	625.84909	191.36589	1.29430
10.330	15.185	150.49037	625.77506	191.27903	1.97720
10.330	20.245	150.43948	624.84562	191.05954	1.95368
10.330	25.556	150.43157	624.65431	190.98569	1.71924
10.330	30.649	150.42701	625.70846	191.33923	1.48350
10.330	35.792	150.45825	625.78670	191.32342	1.26480
	GRADIENT	.00973	.17502	.04115	.13081

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01N79N78 LARC CFHT 118 (MA-22)

(SJA271) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = .000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 271/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.160	150.16551	156.90353	95.08323	-1.35472
10.330	-6.416	150.10634	156.57939	94.92419	-1.33870
10.330	-4.309	151.20854	156.72185	94.94592	-1.27029
10.330	-2.141	150.21977	156.51884	94.81584	-1.13464
10.330	-.152	150.19453	156.82335	95.01627	-.91751
10.330	1.880	150.21166	156.52863	94.82689	-.67979
10.330	4.045	150.17559	156.48765	94.82231	-.23282
10.330	5.766	150.20833	156.55799	94.84678	.17188
10.330	7.932	150.18045	156.78240	95.00037	.74233
10.330	10.155	150.20757	156.69069	94.92766	1.26855
10.330	15.107	150.19586	156.50722	94.82390	1.89091
10.330	20.123	150.18710	156.58917	94.87908	1.89963
10.330	25.443	150.23003	156.63993	94.88272	1.68870
10.330	30.598	150.25925	156.48765	94.77204	1.46186
10.330	35.715	150.22878	156.67110	94.90239	1.25241
	GRADIENT	-.00319	-.02241	-.01156	.12213

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01N79N78 LARC CFHT 118 (MA-22)

(SJA272) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 272' 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.374	150.23623	313.22910	189.72685	-1.48626
10.330	-6.266	150.23659	312.85423	189.49934	-1.47883
10.330	-4.299	150.30161	312.12415	188.97534	-1.44974
10.330	-2.298	150.31111	312.51848	189.20212	-1.43946
10.330	-.267	150.30558	312.51848	189.20908	-1.34380
10.330	2.026	150.35337	312.80348	189.31388	-1.02275
10.330	3.785	150.36137	312.74107	189.27359	-.63617
10.330	5.948	150.35212	312.08117	188.88584	-.04304
10.330	7.941	150.46507	312.01090	188.70154	.80657
10.330	10.144	150.41666	312.65909	189.15442	1.23901
10.330	15.110	150.43496	312.79183	189.21171	1.90860
10.330	20.127	150.40692	312.70197	189.19262	1.91391
10.330	25.402	150.43272	312.98693	189.33255	1.70605
10.330	30.553	150.40620	312.90499	189.31636	1.47409
10.330	35.608	150.48247	312.58092	189.02443	1.26372
	GRADIENT	.00828	.07466	.03478	.09938

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA273) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 273/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.354	150.30832	626.26677	379.15583	-1.89368
10.330	-6.379	150.39654	626.12612	378.84832	-1.97452
10.330	-4.260	150.45167	625.29075	378.20423	-2.07166
10.330	-2.111	150.53533	625.72430	378.25612	-2.10026
10.330	-.134	150.63868	626.30592	378.34797	-2.03479
10.330	1.945	150.63590	625.91148	378.11666	-1.74768
10.330	3.857	150.67207	626.11450	378.14851	-1.27936
10.330	5.828	150.71718	626.24355	378.11325	-.62120
10.330	7.947	150.78780	626.15364	377.88190	.27398
10.330	10.023	150.86565	625.16183	377.08666	1.03737
10.330	15.384	150.87764	625.74758	377.41198	1.97496
10.330	20.432	150.91731	625.93898	377.42818	1.95152
10.330	25.522	150.88030	626.18118	377.66684	1.73276
10.330	30.636	150.93103	626.34507	377.63872	1.49048
10.330	35.743	150.95125	626.20440	377.50333	1.27167
	GRADIENT	.02675	.09082	-.01230	.09469

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01N79N78 LARC CFHT 118 (MA-22)

(SJA274) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6000 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 274/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.410	149.95833	-.15228	-.09241	-1.24681
10.330	-6.300	150.01416	-.20302	-.12315	-1.21125
10.330	-4.192	150.01332	-.15226	-.09236	-1.09788
10.330	-2.360	150.00872	-.15228	-.09238	-.97089
10.330	-.213	150.00786	-.10153	-.06159	-.71518
10.330	1.856	150.01283	-.10152	-.06158	-.38977
10.330	4.038	150.03129	-.10150	-.06156	.03811
10.330	5.979	150.00037	-.15227	-.09238	.43832
10.330	7.957	150.05001	-.15227	-.09235	.90612
10.330	10.125	149.99799	-.15227	-.09238	1.31416
10.330	14.966	150.00328	-.10154	-.06160	1.87285
10.330	20.321	150.03707	-.20303	-.12314	1.86225
10.330	25.415	149.98552	-.15227	-.09239	1.67109
10.330	30.567	149.95711	-.10151	-.06160	1.45072
10.330	35.640	149.99761	-.20301	-.12316	1.24607
	GRADIENT	.00199	.00736	.00447	.13860

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA273) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 275/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.207	149.70378	-.20301	-.12340	-1.34243
10.330	-6.284	149.70229	-.10152	-.06171	-1.34422
10.330	-4.203	149.69161	-.05077	-.03088	-1.26611
10.330	-2.193	149.71000	-.10151	-.06170	-1.14208
10.330	-.208	149.69953	-.10152	-.06171	-.93099
10.330	1.847	149.78141	-.10152	-.06168	-.62591
10.330	3.916	149.73983	-.15228	-.09254	-.22241
10.330	6.049	149.73081	-.10152	-.06170	.25382
10.330	7.830	149.73856	-.10152	-.06170	.66536
10.330	10.076	149.71397	-.05076	-.03085	1.14828
10.330	14.985	149.75518	-.10152	-.06169	1.75646
10.330	20.356	149.77653	-.20302	-.12335	1.79778
10.330	25.528	149.79007	-.05076	-.03084	1.62785
10.330	30.594	149.74812	-.15227	-.09253	1.42377
10.330	35.852	149.80000	-.05076	-.03084	1.22108
	GRADIENT	.00828	-.01002	-.00609	.12860

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Q1N79N78 LARC CFHT 118 (MA-22)

(SJA278) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
ELEVON = -30.000 BOFLAP = -14.250
NO.JET = 2.000

RUN NO. 276/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.286	149.92917	156.61056	95.05529	-1.43103
10.330	-6.329	149.96100	156.48765	94.96053	-1.45641
10.330	-4.216	149.98523	156.21433	94.77936	-1.43499
10.330	-2.242	149.99436	156.44667	94.91455	-1.31215
10.330	-.254	149.97377	156.57938	95.00810	-1.14620
10.330	2.007	149.96475	156.52679	94.98191	-.81795
10.330	3.935	150.01473	156.12258	94.70506	-.45361
10.330	5.922	149.93382	156.48765	94.97774	.05044
10.330	8.078	149.95590	156.33538	94.87136	.66349
10.330	10.096	149.92570	156.67911	95.09910	1.16342
10.330	15.338	149.95301	156.43689	94.93478	1.85141
10.330	20.456	149.93889	156.42712	94.93779	1.84984
10.330	25.577	149.95663	156.40569	94.91356	1.65715
10.330	30.624	149.98667	156.19287	94.76543	1.44267
10.330	35.701	149.94160	156.50722	94.90469	1.23988
GRADIENT		.00138	-.00524	-.00405	.11976

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA277) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 277/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.300	150.69758	.00000	.00000	-1.34842
10.330	-6.072	150.67171	.00000	.00000	-1.35383
10.330	-4.203	150.58875	.00000	.00000	-1.28442
10.330	-2.235	150.59854	.00000	.00000	-1.16594
10.330	-.208	150.66244	.00000	.00000	-.94235
10.330	2.018	150.63694	.00000	.00000	-.60292
10.330	4.126	150.63574	.00000	.00000	-.20607
10.330	5.939	150.60776	.00000	.00000	.19866
10.330	8.046	150.63664	.00000	.00000	.73299
10.330	10.186	150.61047	.00000	.00000	1.19260
10.330	15.339	150.57312	.00000	.00000	1.78445
10.330	20.391	150.56144	.00000	.00000	1.80325
10.330	25.543	150.56731	.00000	.00000	1.62900
10.330	30.598	150.55572	.00000	.00000	1.42520
10.330	35.950	150.52229	.00000	.00000	1.21870
	GRADIENT	.00621	.00000	.00000	.13055

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MA22 - FORCE SOURCE DATA TABULATION

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01N/9N78 LARC CFHT 118 (MA-22)

(SJA2781 (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 278/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/OA	L/D
10.330	-8.365	150.11804	312.23737	189.27506	-1.50496
10.330	-6.092	150.16860	312.25689	189.22316	-1.56336
10.330	-4.206	150.17710	312.08513	189.10837	-1.57218
10.330	-2.210	150.20004	312.06563	189.06767	-1.52612
10.330	-.116	150.20424	311.71043	188.84719	-1.38121
10.330	1.882	150.19898	311.99539	189.02645	-1.15681
10.330	3.908	150.25537	311.88215	188.88693	-.72916
10.330	6.027	150.23835	312.16711	189.08093	-.11744
10.330	7.982	150.31876	312.03439	188.89944	.51204
10.330	10.060	150.25395	311.64021	188.74218	1.11935
10.330	15.228	150.29112	311.93290	188.87272	1.87877
10.330	20.331	150.25686	311.78066	188.82359	1.88897
10.330	25.475	150.31897	311.72991	188.71485	1.68389
10.330	30.520	150.26085	311.95239	188.92258	1.46325
10.330	35.658	150.27993	312.20614	189.05224	1.25417
	GRADIENT	.00764	-.02367	-.02395	.10109

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MA22 - FORCE SOURCE DATA TABULATION

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01N79N78 LARC CFHT 118 (MA-22)

(SJA279) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 279/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.075	150.56137	626.20009	378.47827	-1.70770
10.330	-6.357	150.61685	626.07108	378.26092	-1.84121
10.330	-4.191	150.65563	626.00872	378.12588	-1.93227
10.330	-2.232	150.71716	626.09860	378.02578	-1.93707
10.330	-.163	150.76729	624.63868	377.01891	-1.87637
10.330	1.889	150.86395	625.70427	377.42010	-1.71773
10.330	3.908	150.83139	625.59114	377.43332	-1.30420
10.330	5.974	150.89461	624.99388	376.91500	-.63733
10.330	8.136	150.99262	625.37650	376.90094	.25818
10.330	10.231	150.96236	626.27404	377.51752	1.04514
10.330	15.182	151.03320	626.18848	377.28891	1.94555
10.330	20.344	151.05819	625.68099	376.92077	1.96463
10.330	25.553	151.03796	626.09860	377.22287	1.73266
10.330	30.667	151.04155	625.70427	376.97632	1.48913
10.330	35.848	151.06306	625.99710	377.09904	1.26847
	GRADIENT	.02453	-.06056	-.09802	.07272

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01N79 LARC CFHT 118 (MA-22)

(SJA280) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 47.500
 ELEVON = -30.000 SOFLAP = -14.250
 NO.JET = 1.000

RUN NO. 280/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.113	150.28389	156.86430	48.01418	-1.40096
10.330	-6.262	150.24573	156.55002	47.93015	-1.41198
10.330	-4.219	150.26557	156.90524	48.03257	-1.35119
10.330	-2.220	150.27969	157.01655	48.06212	-1.20111
10.330	-.224	150.27129	156.60077	47.93754	-.97534
10.330	1.997	150.24408	156.69247	47.97429	-.63281
10.330	4.152	150.28668	157.00673	48.05688	-.22196
10.330	6.016	150.33069	157.02636	48.04882	.21889
10.330	8.214	150.30560	157.21954	48.11596	.79522
10.330	10.063	150.32448	157.05748	48.06033	1.22053
10.330	15.166	150.32667	157.14915	48.08768	1.83558
10.330	20.343	150.33513	157.28012	48.12505	1.84787
10.330	25.551	150.30176	156.96580	48.03954	1.65675
10.330	30.664	150.30213	157.28012	48.13561	1.44006
10.330	35.761	150.28216	157.15897	48.10493	1.23694
	GRADIENT	.00032	-.00486	-.00159	.13537

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MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (MA-22)

(SJA281) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = -30.000 BOFLAP = -14.250
 NOJET = 1.000

RUN NO. 281/ 0. RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.386	150.23841	312.13588	95.56977	-1.41995
10.330	-6.276	150.24929	311.74940	95.44452	-1.45942
10.330	-4.257	150.29055	312.13588	95.53661	-1.40786
10.330	-2.255	150.32870	312.10464	95.50281	-1.28494
10.330	-.103	150.31352	311.83140	95.42884	-1.06112
10.330	1.916	150.29501	311.92114	95.46805	-.76495
10.330	3.979	150.33532	311.62842	95.35289	-.34176
10.330	5.981	150.32764	311.85090	95.42584	.14943
10.330	7.961	150.30141	311.85090	95.44249	.71455
10.330	10.036	150.29406	311.69865	95.40056	1.20593
10.330	15.022	150.30561	311.81964	95.43026	1.87557
10.330	20.361	150.31458	311.44491	95.30989	1.88479
10.330	25.518	150.32380	311.80015	95.41275	1.67885
10.330	30.637	150.32065	311.59715	95.35263	1.45576
10.330	35.702	150.32380	311.69865	95.39169	1.25116
	GRADIENT	.00268	-.05822	-.01952	.12846

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01N79 LARC CFHT 118 (MA-22)

(SJA282) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 1.000

RUN NO. 282/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.240	150.19975	625.51709	191.57013	-1.52429
10.330	-6.277	150.18017	625.52874	191.59867	-1.60659
10.330	-4.241	150.20639	624.46302	191.23886	-1.56959
10.330	-2.060	150.23260	624.20928	191.12780	-1.45706
10.330	-.097	150.26594	625.27500	191.41164	-1.33479
10.330	1.919	150.29987	624.09604	191.00760	-1.04838
10.330	3.954	150.27351	625.27500	191.40199	-.59079
10.330	5.966	150.30615	625.11108	191.31026	-.03539
10.330	8.007	150.33808	624.76751	191.16451	.63188
10.330	10.086	150.35512	625.26333	191.29454	1.22613
10.330	15.148	150.35988	623.90479	190.87285	1.96450
10.330	20.215	150.41856	624.90807	191.10521	1.95971
10.330	25.647	150.42169	625.21258	191.19435	1.72071
10.330	30.749	150.41327	625.12276	191.17759	1.47975
10.330	35.845	150.41363	624.19754	190.89418	1.26483
	GRADIENT	.00990	.07363	.00994	.11590

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OINB5N50 LARC CFHT 118 (MA-22)

(SJA283) (12 JAN 76)

REFERENCE DATA

SREF = 265 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = -30.000 BDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 283/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.313	150.72050	164.83185	94.48928	-1.53126
10.330	-6.358	150.75390	164.74065	94.41608	-1.58000
10.330	-4.068	150.81062	164.43614	94.20611	-1.54359
10.330	-2.365	150.82463	164.47661	94.22054	-1.47627
10.330	-.113	150.85871	164.48689	94.20515	-1.28973
10.330	1.884	150.84499	164.38538	94.15557	-1.01903
10.330	3.961	150.90508	164.37511	94.11220	-.55289
10.330	5.945	150.88576	164.42586	94.15331	-.02750
10.330	8.003	150.91746	164.20290	94.00589	.58223
10.330	10.022	150.92004	164.12137	93.95761	1.13253
10.330	15.244	150.90522	164.09113	93.94952	1.90873
10.330	20.386	150.92817	164.27361	94.03970	1.89855
10.330	25.569	150.93217	164.36484	94.08943	1.68533
10.330	30.543	150.95312	163.91837	93.82083	1.46544
10.330	35.860	150.95928	164.20290	93.97985	1.24405
	GRADIENT	.01034	-.01070	-.01258	.12064

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(SJA284) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 284/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.180	150.99526	329.66370	188.63468	-1.69539
10.330	-6.252	151.03181	330.32343	188.96644	-1.77429
10.330	-4.222	151.10094	329.53205	188.42747	-1.81784
10.330	-2.065	151.13335	329.68430	188.47410	-1.81245
10.330	-.111	151.16875	330.32343	188.77029	-1.71751
10.330	1.904	151.20586	329.96819	188.54582	-1.56665
10.330	3.975	151.21251	329.30846	188.16069	-1.16477
10.330	5.955	151.28445	330.29333	188.63368	-.57333
10.330	7.981	151.24346	329.70491	188.34867	.31610
10.330	10.053	151.28455	330.14107	188.54660	1.03398
10.330	15.232	151.28745	329.85718	188.38086	1.97233
10.330	20.399	151.31685	330.29333	188.59330	1.98372
10.330	25.531	151.29361	329.73506	188.30345	1.75122
10.330	30.679	151.32988	330.37418	188.62321	1.49580
10.330	35.748	151.27644	329.93806	188.44076	1.27239
	GRADIENT	.01451	-.00821	-.02277	.07612

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(SJA285) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 285/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.090	150.66550	443.44702	254.29725	-1.83168
10.330	-6.422	150.74676	443.11014	253.96709	-1.95420
10.330	-4.066	150.87706	443.13784	253.76362	-2.05594
10.330	-2.151	150.97546	443.19324	253.62993	-2.09972
10.330	-.186	151.00582	443.34083	253.66339	-2.07911
10.330	2.050	151.07426	443.59459	253.69359	-1.99118
10.330	3.930	151.15509	443.11479	253.28368	-1.74685
10.330	5.947	151.17448	443.21629	253.30920	-1.10772
10.330	8.008	151.20281	443.09173	253.19056	-.00358
10.330	10.051	151.22778	442.83796	253.00378	.88785
10.330	15.243	151.28939	443.41930	253.23274	2.00809
10.330	20.360	151.28718	443.95457	253.54213	2.03163
10.330	25.519	151.35714	443.82058	253.34845	1.78290
10.330	30.683	151.34373	443.49308	253.18394	1.51874
10.330	35.714	151.38722	443.54383	253.14017	1.29052
	GRADIENT	.03237	.01832	-.04386	.03607

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OIN49 LARC CFHT 118 (MA-22)

(SJA288) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 286/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.230	150.43405	155.19929	94.91424	-1.42744
10.330	-6.277	150.39169	155.14854	94.90993	-1.47415
10.330	-4.193	150.39205	155.20899	94.94669	-1.42128
10.330	-2.195	150.41572	154.88510	94.73364	-1.29791
10.330	-.216	150.36880	154.82467	94.72623	-1.10310
10.330	1.981	150.41351	154.84403	94.70991	-.75273
10.330	3.892	150.43643	154.94553	94.75756	-.35071
10.330	6.087	150.44211	154.69177	94.59880	.18491
10.330	7.941	150.47348	155.03735	94.79036	.67758
10.330	10.113	150.50521	154.52986	94.46016	1.22661
10.330	15.374	150.45714	154.53952	94.49625	1.90192
10.330	20.528	150.49216	154.49842	94.44913	1.87822
10.330	25.428	150.46851	155.00597	94.77431	1.68410
10.330	30.627	150.43349	154.69177	94.60422	1.45544
10.330	35.861	150.44889	155.04704	94.81178	1.24390
	GRADIENT	.00430	-.02777	-.01969	.13112

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01N49 LARC CFHT 118 (MA-22)

(SJA287) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 SDFLAP = -14.250
 NO.JET = 2.000

RUN NO. 287/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.097	150.70952	309.12979	188.70699	-1.54797
10.330	-6.391	150.69518	309.41496	188.89905	-1.62258
10.330	-4.054	150.75669	309.36421	188.79100	-1.58156
10.330	-2.277	150.77045	309.63731	188.94042	-1.50548
10.330	-.158	150.76452	309.25062	188.71188	-1.37153
10.330	1.878	150.76363	309.50440	188.86786	-1.06302
10.330	3.968	150.84830	308.69231	188.26657	-.58856
10.330	5.990	150.81030	309.34605	188.70915	-.01102
10.330	7.993	150.83160	309.53580	188.80190	.64884
10.330	10.220	150.81820	309.40289	188.73760	1.29768
10.330	15.232	150.83416	309.19987	188.59380	1.99276
10.330	20.368	150.85733	309.50440	188.75055	1.95767
10.330	25.457	150.81464	309.31346	188.68750	1.72774
10.330	30.635	150.78235	308.85672	188.44923	1.48565
10.330	35.818	150.86908	309.28204	188.60026	1.26591
	GRADIENT	.00880	-.07480	-.05664	.12095

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MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(SJA268) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 2621 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.193	150.71305	620.22691	378.60607	-1.91566
10.330	-6.250	150.73131	619.83288	378.31970	-2.06166
10.330	-4.175	150.83255	619.55507	377.89632	-2.15100
10.330	-2.153	150.93729	617.51045	376.38784	-2.19829
10.330	-.162	150.98320	619.73138	377.62668	-2.17434
10.330	2.113	151.02700	620.37918	377.91179	-1.86410
10.330	4.007	151.04170	622.87799	379.39704	-1.34071
10.330	6.020	151.07690	614.64386	374.29438	-.56318
10.330	8.018	151.13203	620.89867	377.98539	.38564
10.330	10.057	151.11784	615.87423	374.94202	1.27346
10.330	15.194	151.17377	617.90431	376.03875	2.21535
10.330	20.270	151.19614	619.42687	376.90856	2.10457
10.330	25.642	151.22669	618.25957	376.12328	1.81075
10.330	30.675	151.19314	618.51333	376.36116	1.54446
10.330	35.897	151.19349	620.27767	377.43388	1.30263
	GRADIENT	.02450	.46021	.21881	.09474

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MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(SJA299) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.8800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 2.000

RUN NO. 289/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.271	150.40980	-.15227	-.09314	-1.34543
10.330	-6.321	150.45141	-.15225	-.09310	-1.34402
10.330	-4.221	150.49282	-.10151	-.06206	-1.28080
10.330	-2.227	150.52031	-.10151	-.06204	-1.15766
10.330	-.217	150.54596	-.10151	-.06203	-.94560
10.330	2.076	150.52486	-.10152	-.06201	-.58164
10.330	3.793	150.69936	-.05075	-.03099	-.24930
10.330	5.987	150.67600	-.05075	-.03099	.23288
10.330	7.869	150.72263	-.05076	-.03099	.66945
10.330	10.055	150.70845	-.10151	-.06197	1.15271
10.330	15.299	150.78541	-.10151	-.06194	1.77137
10.330	20.457	150.76865	-.20303	-.12389	1.79417
10.330	25.585	150.79585	-.10152	-.06194	1.62609
10.330	30.607	150.78955	.00000	.00000	1.42287
10.330	35.786	150.79633	-.10150	-.06192	1.22320
	GRADIENT	.02540	.00485	.00297	.12962

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MA22 - FORCE SOURCE DATA TABULATION

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01NB3 LARC CFHT 118 (MA-22)

(SJA290) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = -30.000 SOFLAP = -14.250
 NO.JET = 3.000

RUN NO. 290/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.333	149.53013	-.40584	-.36803	-1.34078
10.330	-6.375	149.59773	-.40584	-.36787	-1.34739
10.330	-4.320	149.47568	-.45662	-.41423	-1.27411
10.330	-2.302	149.48389	-.40584	-.36815	-1.14796
10.330	-.267	149.59553	-.40584	-.36787	-.93744
10.330	1.842	149.45058	-.40586	-.36825	-.60380
10.330	4.056	149.59590	-.45654	-.41383	-.19278
10.330	5.948	149.55342	-.35509	-.32196	.22641
10.330	7.912	149.55251	-.40584	-.36798	.70875
10.330	10.144	149.38285	-.35517	-.32240	1.17614
10.330	15.214	149.39650	-.40589	-.36841	1.77508
10.330	20.469	149.44524	-.40586	-.36826	1.79687
10.330	25.438	149.49674	-.40579	-.36807	1.62887
10.330	30.498	149.32715	-.35517	-.32252	1.42772
10.330	35.741	149.38708	-.35511	-.32234	1.22380
	GRADIENT	.00995	-.00015	-.00011	.13002

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(SJA291) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 142.500
 ELEVON = -30.000 BOFLAP = -14.250
 NO.JET = 3.000

RUN NO. 291/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.307	149.40208	157.19007	142.66851	-1.45874
10.330	-6.350	149.44352	157.24080	142.67499	-1.52421
10.330	-4.271	149.64684	157.26206	142.50040	-1.47331
10.330	-2.255	149.60151	157.10006	142.39674	-1.33952
10.330	-.206	149.45863	157.34228	142.75263	-1.16702
10.330	2.009	149.65809	157.16060	142.39776	-.82523
10.330	3.919	149.60704	157.21133	142.49233	-.41047
10.330	5.895	149.53602	157.01822	142.38490	.10939
10.330	8.069	149.68035	156.93807	142.17499	.73321
10.330	10.136	149.62865	157.05914	142.33383	1.24954
10.330	15.290	149.47329	156.87583	142.31548	1.93634
10.330	20.539	149.45598	156.97730	142.42402	1.91008
10.330	25.477	149.60508	157.06896	142.36516	1.70092
10.330	30.550	149.65646	156.99860	142.25253	1.46698
10.330	35.772	149.60292	156.92656	142.23814	1.25270
	GRADIENT	-.00081	-.00215	-.00117	.12779

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(SJA292) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 285.000
 ELEVON = -30.000 SOFLAP = -14.250
 NO.JET = 3.000

RUN NO. 292/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.296	149.91343	313.44724	283.51993	-1.63958
10.330	-6.300	150.07672	313.48994	283.25003	-1.69634
10.330	-4.219	150.01628	313.24429	283.14210	-1.69961
10.330	-2.218	150.02522	312.99061	282.89594	-1.60573
10.330	-.170	150.09633	313.06091	282.82542	-1.48358
10.330	1.920	150.27159	312.47541	281.96724	-1.13392
10.330	3.883	150.07536	313.01017	282.81910	-.65613
10.330	5.786	150.16139	312.88914	282.54777	-.10542
10.330	8.004	150.21334	313.56830	283.06314	.65592
10.330	10.008	150.31536	313.18558	282.52578	1.27992
10.330	15.300	150.25440	313.87274	283.26054	2.05974
10.330	20.495	150.30271	313.47838	282.81371	1.99635
10.330	25.642	150.46939	313.05296	282.11705	1.75073
10.330	30.638	150.30257	314.05607	283.33516	1.50347
10.330	35.786	150.32464	314.12643	283.35703	1.27883
	GRADIENT	.01815	-.04889	-.07833	.12569

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(SJA293) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 570.000
 ELEVON = -30.000 BDFLAP = -14.250
 NO.JET = 3.000

RUN NO. 293/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.135	150.22696	631.01540	569.57611	-2.07370
10.330	-6.188	150.46789	631.28035	568.90287	-2.27153
10.330	-4.242	150.53882	629.32471	566.87324	-2.37548
10.330	-2.224	150.51377	630.39526	567.93207	-2.45882
10.330	-.057	150.66418	630.77305	567.70510	-2.50470
10.330	2.125	150.63268	630.54747	567.62076	-2.25026
10.330	3.984	150.72151	630.16430	566.94150	-1.69542
10.330	6.100	150.76775	629.73569	566.38212	-.73484
10.330	8.063	150.85174	629.38054	565.74753	.42515
10.330	10.083	150.85388	629.84854	566.16019	1.45971
10.330	15.071	150.91189	630.13022	566.19566	2.37762
10.330	20.412	151.08770	629.60627	565.06657	2.20361
10.330	25.665	151.03230	629.88790	565.52669	1.86422
10.330	30.696	151.16206	629.56693	564.75332	1.57504
10.330	35.851	151.22107	629.55554	564.52273	1.32702
	GRADIENT	.02326	.08913	-.00734	.07421

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01N83 LARC CFHT 118 (MA-22)

(SJA294) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = -30.000 BOFLAP = .000
 NOJET = 3.000

RUN NO. 294/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.391	149.57627	-.50727	-.45987	-1.33138
10.330	-6.458	149.59959	-.45657	-.41384	-1.34910
10.330	-4.321	149.64234	-.45654	-.41370	-1.27451
10.330	-2.248	149.50590	-.45660	-.41413	-1.15011
10.330	-.283	149.54032	-.50733	-.46004	-.93501
10.330	1.801	149.60188	-.45657	-.41384	-.62093
10.330	3.888	149.61612	-.40581	-.36779	-.21840
10.330	5.960	149.43467	-.40589	-.36831	.25210
10.330	7.962	149.61612	-.50727	-.45975	.72370
10.330	10.005	149.46042	-.45662	-.41427	1.17135
10.330	15.134	149.62478	-.45654	-.41375	1.77846
10.330	20.263	149.44923	-.45662	-.41431	1.80781
10.330	25.611	149.61038	-.50730	-.45979	1.62880
10.330	30.604	149.62789	-.45654	-.41374	1.42605
10.330	35.725	149.48243	-.45665	-.41424	1.22677
	GRADIENT	.00214	.00505	.00458	.12921

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01NB3 LARC CFHT 118 (MA-22)

(SJA295) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 142.500
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 295/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.237	149.42236	157.74820	143.15565	-1.45439
10.330	-6.331	149.48711	157.63687	142.99268	-1.50662
10.330	-4.143	149.54772	157.58613	142.88870	-1.45041
10.330	-2.295	149.53264	157.69746	143.00406	-1.33574
10.330	-.051	149.53803	157.64672	142.95290	-1.11790
10.330	1.784	149.68749	157.27189	142.47061	-.84747
10.330	3.914	149.66203	157.48466	142.68762	-.39684
10.330	5.956	149.65409	157.53539	142.74116	.15424
10.330	8.000	149.62701	157.28171	142.53709	.72242
10.330	10.032	149.61207	157.24080	142.51425	1.26251
10.330	15.104	149.62828	157.18024	142.44393	1.93257
10.330	20.138	149.72331	157.27189	142.43653	1.92236
10.330	25.488	149.79034	156.95768	142.08834	1.69944
10.330	30.598	149.64691	157.29154	142.52705	1.46782
10.330	35.700	149.76703	157.36352	142.47791	1.25668
	GRADIENT	.01881	-.03068	-.04576	.12885

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CIN83 LARC CFHT 118 (MA-22)

(SJA298) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
LREF = 474.8000 INCHES YMRP = .0000 IN. YO
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 285.000
ELEVON = -30.000 BOFLAP = .000
NO.JET = 3.000

SUN NO. 296/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/O
10.330	-8.263	149.71651	313.57985	284.01294	-1.63883
10.330	-6.143	149.70421	313.75165	284.19190	-1.70414
10.330	-4.251	149.80481	313.78278	284.02923	-1.68769
10.330	-2.226	149.77678	313.52912	283.85273	-1.59794
10.330	-.226	149.80186	313.72052	283.97846	-1.52078
10.330	1.896	149.81433	313.66978	283.90890	-1.18906
10.330	4.093	149.85563	313.58790	283.75656	-.64512
10.330	5.915	149.90061	313.75165	283.81955	-.07949
10.330	7.993	149.94886	313.75165	283.72822	.65475
10.330	10.198	149.93965	313.82200	283.80927	1.35782
10.330	15.277	149.91185	313.92348	283.95369	2.06069
10.330	20.443	150.00260	313.82200	283.69017	1.99975
10.330	25.419	149.95631	313.68938	283.65781	1.75869
10.330	30.642	149.97474	313.65018	283.58751	1.50208
10.330	35.764	150.05979	313.85312	283.61017	1.27893
	GRADIENT	.00677	-.01205	-.02374	.12077

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DATE 13 APR 78

HA22 - FORCE SOURCE DATA TABULATION

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01M83 LARC CFHT 118 (HA-22)

(SJA297) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 297/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.296	150.05822	629.84854	569.16216	-2.06865
10.330	-6.375	150.13116	629.69634	568.74817	-2.24758
10.330	-4.224	150.30742	630.31648	568.64068	-2.39735
10.330	-2.204	150.30129	629.49341	567.92131	-2.52080
10.330	-.214	150.33610	630.44600	568.64902	-2.58210
10.330	1.917	150.37357	630.22034	568.30383	-2.38351
10.330	3.901	150.62498	630.45734	567.56863	-1.86138
10.330	5.975	150.69768	629.20043	566.16385	-.87059
10.330	8.000	150.72540	630.02347	566.80016	.36894
10.330	10.032	150.78896	629.87129	566.42440	1.43947
10.330	15.303	150.77257	629.96138	566.56699	2.41638
10.330	20.486	150.85631	630.51940	566.75409	2.19786
10.330	25.685	150.81697	630.13022	566.55200	1.85657
10.330	30.719	150.96138	629.74708	565.66588	1.57252
10.330	35.765	150.99043	629.60627	565.46804	1.32895
	GRADIENT	.03470	.04926	-.08658	.05949

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MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(SJA298) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .008 T/OA = 95.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 298/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.233	149.82125	154.51300	94.88104	-1.42339
10.330	-6.339	149.63117	154.74491	95.14416	-1.46265
10.330	-4.417	149.67016	154.81500	95.16245	-1.42469
10.330	-2.304	149.83567	154.71591	94.99649	-1.29878
10.330	-.290	149.78499	154.63378	94.97819	-1.11340
10.330	1.840	149.84661	154.72558	94.99550	-.78155
10.330	3.874	149.67949	154.80532	95.15057	-.35479
10.330	5.961	149.67191	154.81500	95.16134	.16562
10.330	7.788	149.83205	154.59270	94.92314	.63168
10.330	9.975	149.74694	154.71351	95.05131	1.20611
10.330	14.953	149.88533	154.72558	94.97096	1.88790
10.330	20.340	149.77204	154.74491	95.05467	1.88517
10.330	25.549	149.91056	154.67485	94.92384	1.67983
10.330	30.607	149.88402	154.52266	94.84723	1.45607
10.330	35.794	149.78698	154.69418	95.01403	1.24713
	GRADIENT	.00156	-.00046	-.00127	.12816

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01N49 LARC CFHT 118 (MA-22)

(SJA299) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 9REF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 299/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.261	149.77310	309.71212	190.24454	-1.52051
10.330	-6.293	149.81149	309.93445	190.33232	-1.59853
10.330	-4.143	149.83513	309.73148	190.17767	-1.55658
10.330	-2.220	150.03921	309.50188	189.77947	-1.48031
10.330	-.244	149.90349	309.37628	189.87295	-1.33781
10.330	1.859	150.07844	309.33037	189.62346	-1.01862
10.330	3.868	149.98642	309.40769	189.78469	-.58023
10.330	5.985	150.06389	308.91960	189.39002	.02380
10.330	8.004	150.04241	309.25547	189.62307	.67874
10.330	10.009	150.08999	309.33762	189.61331	1.26068
10.330	14.999	150.13575	309.20473	189.47409	1.99331
10.330	20.447	150.17152	309.16609	189.40528	1.95145
10.330	25.638	150.10091	308.84956	189.30038	1.71678
10.330	30.674	150.06355	308.81812	189.32823	1.48356
10.330	35.772	150.06355	309.22406	189.57710	1.26723
	GRADIENT	.01720	-.04039	-.04658	.12056

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MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(SJA300) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = -30.000 SOFLAP = .000
 NO.JET = 2.000

RUN NO. 300/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.318	150.00449	616.36767	378.02752	-1.87169
10.330	-6.395	150.05006	614.97150	377.05667	-2.01853
10.330	-4.200	150.06667	615.00994	377.03851	-2.08919
10.330	-2.232	150.23637	620.80615	380.16204	-2.13087
10.330	-.203	150.25070	621.11056	380.31218	-2.08575
10.330	2.051	150.41379	618.02778	378.01424	-1.77942
10.330	3.811	150.53481	617.73552	377.53173	-1.33149
10.330	5.929	150.43346	620.99716	379.78078	-.50441
10.330	7.975	150.53591	617.77412	377.55256	.43941
10.330	10.178	150.63499	618.75011	377.90031	1.36166
10.330	15.218	150.57149	619.11981	378.28557	2.24354
10.330	20.440	150.45275	619.10776	378.57675	2.09955
10.330	25.594	150.59917	617.92632	377.48694	1.80518
10.330	30.652	150.60430	618.66316	377.92420	1.53832
10.330	35.829	150.60521	620.73152	379.18541	1.30191
	GRADIENT	.05477	.12425	-.06152	.09145

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MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (MA-22)

(SJA301) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 301/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.409	149.77371	156.36847	48.02545	-1.38642
10.330	-6.271	149.68126	156.13430	47.98315	-1.40804
10.330	-4.272	149.86051	156.24747	47.96049	-1.34033
10.330	-2.132	149.74399	156.26699	48.00381	-1.17891
10.330	-.285	149.85767	156.30796	47.97997	-.99327
10.330	1.796	149.70581	156.27676	48.01905	-.65865
10.330	3.883	149.80949	156.26699	47.98282	-.25887
10.330	5.934	149.73970	156.38801	48.04236	.22419
10.330	8.006	149.90946	156.40943	47.99453	.73148
10.330	10.029	149.77313	156.26699	47.99447	1.21051
10.330	14.983	149.80639	156.28653	47.98981	1.84265
10.330	20.373	149.79668	156.25723	47.98392	1.85005
10.330	25.520	149.78979	156.38801	48.02629	1.65989
10.330	30.559	149.88489	156.46994	48.02097	1.44492
10.330	35.679	149.84589	156.52067	48.04904	1.24149
	GRADIENT	-.00714	.00233	.00300	.13275

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MA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (MA-22)

(SJA302) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = -30.000 BOFLAP = .000
 NOJET = 1.000

RUN NO. 302/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.395	149.67969	312.18662	95.94210	-1.91351
10.330	-6.330	149.80912	312.41299	95.92872	-1.46545
10.330	-4.196	149.76295	312.47157	95.97629	-1.39657
10.330	-2.285	149.83637	312.35056	95.89211	-1.29444
10.330	-.245	149.73328	311.74169	95.77108	-1.09258
10.330	1.798	149.81783	311.97589	95.78894	-.79549
10.330	3.939	149.78694	312.06563	95.83625	-.34082
10.330	6.020	149.86958	311.92516	95.74029	.18045
10.330	7.876	149.75982	312.01489	95.83802	.67768
10.330	10.089	149.76084	311.83140	95.78101	1.23974
10.330	15.136	149.77034	311.95414	95.81570	1.90567
10.330	20.359	149.90952	311.77295	95.66808	1.89237
10.330	25.576	149.81021	311.74169	95.72190	1.68131
10.330	30.563	149.87209	311.85493	95.71713	1.46100
10.330	35.747	149.70909	311.91340	95.83931	1.25063
	GRADIENT	.00137	-.05747	-.01853	.12885

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MA22 - FORCE SOURCE DATA TABULATION

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Q1N79 LARC CFHT 118 (MA-22)

(SJA303) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 303/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.359	149.56196	624.79091	192.16371	-1.57115
10.330	-6.384	149.70542	624.91577	192.01793	-1.63033
10.330	-4.239	149.74948	624.61135	191.86792	-1.61785
10.330	-2.239	149.78048	625.16945	191.99961	-1.48875
10.330	-.188	149.82456	624.71282	191.80293	-1.37593
10.330	1.990	149.88339	625.00556	191.81749	-1.05831
10.330	3.872	149.82909	624.65038	191.77796	-.61558
10.330	6.006	149.87034	624.63868	191.72158	.01348
10.330	7.896	149.86782	624.68070	191.79909	.59152
10.330	10.102	149.85984	625.03294	191.85604	1.25871
10.330	15.125	149.97289	624.18200	191.45041	1.99262
10.330	20.330	150.02556	624.76356	191.56151	1.96996
10.330	25.478	149.91409	624.94313	191.75905	1.73287
10.330	30.548	150.02267	624.77525	191.56879	1.49136
10.330	35.684	149.84100	624.32250	191.66206	1.27291
	GRADIENT	.01297	-.00376	-.01776	.11880

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MA22 - FORCE SOURCE DATA TABULATION

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01NB4 LARC CFHT 118 (MA-22)

(SJA304) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 304/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.233	149.61269	160.58959	95.10047	-1.49775
10.330	-6.280	149.68254	160.47809	94.99009	-1.55834
10.330	-4.371	149.81048	160.61022	94.98711	-1.55052
10.330	-2.324	149.72090	160.43737	94.94166	-1.47867
10.330	-.265	149.73045	160.27514	94.83961	-1.34838
10.330	1.971	149.87761	160.26513	94.74057	-1.07137
10.330	3.742	149.91052	160.21439	94.68978	-.76513
10.330	5.858	149.81604	160.38664	94.85137	-.19703
10.330	7.905	149.85811	160.26513	94.75290	.46750
10.330	10.108	149.90889	160.26513	94.72080	1.05909
10.330	15.156	149.90126	160.12293	94.64157	1.78216
10.330	20.366	149.89075	160.13294	94.65413	1.81723
10.330	25.553	149.87957	160.18368	94.69118	1.63937
10.330	30.583	150.00856	160.15365	94.59202	1.43275
10.330	35.792	149.98400	160.21439	94.64339	1.22382
	GRADIENT	.01745	-.04703	-.03885	.09599

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01N84 LARC CFHT 118 (MA-22)

(SJA305) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XG
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 305/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.371	149.78853	320.58099	189.62383	-1.59986
10.330	-6.390	149.87822	321.03758	189.78027	-1.67924
10.330	-4.466	149.98642	320.66241	189.42174	-1.68398
10.330	-2.123	150.10280	320.46884	189.16062	-1.62137
10.330	-.313	150.11739	320.06292	188.90266	-1.56361
10.330	1.995	150.23179	320.39807	188.95647	-1.35694
10.330	3.865	150.30911	320.74383	189.06308	-1.02272
10.330	5.828	150.35234	320.76387	189.02052	-.54141
10.330	8.018	150.25623	321.00691	189.28474	.23188
10.330	10.045	150.35987	321.05764	189.18416	.86839
10.330	15.057	150.42291	320.81460	188.96173	1.73772
10.330	20.268	150.39304	321.36206	189.32178	1.82526
10.330	25.321	150.50650	321.08831	189.01791	1.66373
10.330	30.563	150.35401	320.99629	189.15539	1.44207
10.330	35.736	150.51310	321.37263	189.17698	1.23338
	GRADIENT	.03742	.00422	-.04467	.07588

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MA22 - FORCE SOURCE DATA TABULATION

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01N84 LARC CFHT 11B (MA-22)

(SJA305) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 306/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.365	149.89113	431.23253	254.91669	-1.68938
10.330	-6.410	150.11166	430.82350	254.28379	-1.73899
10.330	-4.292	150.10380	430.54601	254.13331	-1.74576
10.330	-2.278	150.33882	430.89805	253.94350	-1.71778
10.330	-.255	150.44694	430.56984	253.56771	-1.68339
10.330	1.794	150.46180	429.90732	253.15254	-1.49598
10.330	3.882	150.46067	430.61911	253.51471	-1.18953
10.330	5.856	150.55725	430.36691	253.26251	-.74006
10.330	7.855	150.45770	429.68350	253.02764	-.06381
10.330	10.135	150.61452	430.62365	253.31724	.72802
10.330	15.148	150.77564	430.21168	252.80446	1.71444
10.330	20.348	150.74262	430.14012	252.81778	1.82760
10.330	25.478	150.81107	431.15799	253.30102	1.65905
10.330	30.562	150.77408	430.88358	253.20191	1.44561
10.330	35.723	150.72562	430.57292	253.10070	1.23900
	GRADIENT	.04081	-.05095	-.09893	.06556

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01N84 LARC CFHT 118 (MA-22)

(SJA307) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = -30.000 BOFLAP = .000
 NOJET = 2.000

RUN NO. 307/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.210	149.67839	-.50733	-.30031	-1.34014
10.330	-6.485	149.70934	-.55806	-.33027	-1.35492
10.330	-4.117	149.58242	-.60883	-.36062	-1.27518
10.330	-2.331	149.66787	-.50733	-.30033	-1.15444
10.330	-.276	149.63149	-.50733	-.30040	-.94231
10.330	1.809	149.60612	-.55817	-.33056	-.62298
10.330	4.057	149.71957	-.55806	-.33024	-.20821
10.330	5.959	149.65582	-.50739	-.30039	.21915
10.330	7.977	149.59706	-.50733	-.30047	.71188
10.330	9.968	149.62806	-.55813	-.33049	1.14263
10.330	14.938	149.81184	-.50730	-.30002	1.78691
10.330	20.375	149.66470	-.50736	-.30035	1.79850
10.330	25.501	149.65837	-.50739	-.30038	1.63130
10.330	30.542	149.54871	-.50742	-.30062	1.42732
10.330	35.732	149.53627	-.60891	-.36078	1.22526
	GRADIENT	.01040	.00203	.00122	.13101

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01N85 LARC CFHT 118 (MA-22)

(SJA308) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 308/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.295	149.31148	-.35513	-.21501	-1.33913
10.330	-6.356	149.50136	-.30434	-.18403	-1.34874
10.330	-4.290	149.47251	-.35506	-.21474	-1.29453
10.330	-2.293	149.43583	-.35509	-.21481	-1.16212
10.330	-.279	149.42204	-.30438	-.18415	-.95386
10.330	1.816	149.49765	-.40581	-.24539	-.62568
10.330	3.939	149.36943	-.30440	-.18423	-.21330
10.330	5.927	149.38507	-.25366	-.15350	.22345
10.330	7.936	149.40367	-.35513	-.21488	.71704
10.330	10.181	149.48663	-.35511	-.21475	1.20158
10.330	15.292	149.68005	-.35506	-.21444	1.78554
10.330	20.240	149.56258	-.30440	-.18399	1.80678
10.330	25.461	149.50435	-.25368	-.15339	1.63361
10.330	30.507	149.53173	-.35513	-.21470	1.43131
10.330	35.753	149.52930	-.30438	-.18402	1.22453
	GRADIENT	-.00706	.00247	.00149	.13159

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(SJA309) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 309/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/O
10.330	-8.366	149.53023	157.20151	95.03775	-1.41792
10.330	-6.397	149.49970	157.26206	95.09377	-1.43128
10.330	-4.341	149.58732	157.13115	94.95895	-1.38509
10.330	-2.335	149.50260	157.25224	95.08599	-1.27801
10.330	-.245	149.48582	157.26206	95.10260	-1.10329
10.330	1.855	149.55205	156.94788	94.87057	-.68565
10.330	4.086	149.41522	157.02803	95.00594	-.28086
10.330	6.005	149.55540	157.00841	94.90503	.15749
10.330	7.992	149.60451	157.15078	94.95991	.65102
10.330	10.051	149.47326	157.18024	95.06111	1.12198
10.330	15.136	149.47417	157.17042	95.05459	1.77187
10.330	20.259	149.57831	157.20151	95.00720	1.81591
10.330	25.415	149.53061	157.05914	94.95144	1.64186
10.330	30.471	149.53891	157.17042	95.01344	1.43545
10.330	35.690	149.49516	157.17042	95.04124	1.22649
	GRADIENT	-.01406	-.02444	-.00584	.13363

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01N85 LARC CFHT 118 (MA-22)

(SJA310) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 310/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.406	149.85003	311.87442	188.14442	-1.44433
10.330	-6.459	150.07882	311.86669	187.85295	-1.49258
10.330	-4.344	149.98343	311.88618	187.98417	-1.46613
10.330	-2.276	150.10184	311.58180	187.65256	-1.40175
10.330	-.317	149.95782	311.67148	187.88684	-1.25739
10.330	1.799	149.95110	312.02663	188.10937	-.97822
10.330	3.766	150.12373	311.83545	187.77794	-.59839
10.330	5.937	150.01342	311.39834	187.65261	-.01572
10.330	7.947	150.05874	311.70273	187.77931	.50418
10.330	9.961	150.15380	311.68326	187.64871	1.02324
10.330	15.246	150.12991	311.82368	187.76312	1.76288
10.330	20.430	150.18746	312.29201	187.97306	1.82017
10.330	25.603	150.26893	312.37396	187.92045	1.64429
10.330	30.576	150.12540	311.77701	187.74066	1.43562
10.330	35.767	150.01024	312.02663	188.03521	1.23003
GRADIENT		.00641	.01711	.00229	.10632

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(SJA311) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = -30.000 BOFLAP = .000
 NO. JET = 2.000

RUN NO. 311/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.287	149.99350	164.04959	94.49666	-1.52568
10.330	-6.358	149.90997	164.02961	94.53780	-1.56391
10.330	-4.290	149.96038	163.96863	94.47088	-1.52861
10.330	-2.307	150.01691	164.07009	94.49372	-1.46880
10.330	-.293	150.09227	164.00911	94.41117	-1.29932
10.330	1.958	150.19831	164.26276	94.49043	-.94524
10.330	3.775	150.02501	163.92814	94.40687	-.54933
10.330	5.921	150.17822	164.15104	94.43879	.00579
10.330	7.945	150.06500	164.27302	94.58027	.59892
10.330	10.149	150.12155	164.27302	94.54465	1.19127
10.330	15.117	150.23966	164.16130	94.40607	1.90670
10.330	20.156	150.14371	164.01936	94.38472	1.91460
10.330	25.580	150.15455	164.05984	94.40120	1.68693
10.330	30.575	150.14210	163.90765	94.32145	1.46615
10.330	35.735	150.21573	163.90765	94.27522	1.24962
	GRADIENT	.01572	.00645	-.00618	.12161

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HA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (HA-22)

(SJA312) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 312/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.220	150.27381	329.64157	189.52758	-1.68677
10.330	-6.259	150.26727	329.84449	189.65250	-1.76226
10.330	-4.119	150.41047	329.79376	189.44280	-1.80791
10.330	-2.306	150.31094	330.08866	189.73775	-1.80612
10.330	-.166	150.44228	329.50997	189.23976	-1.71592
10.330	1.960	150.59184	329.74303	189.18553	-1.54027
10.330	3.874	150.40093	329.96657	189.55409	-1.15028
10.330	6.052	150.61897	329.57025	189.05234	-.49131
10.330	7.905	150.50465	330.08866	189.49355	.27075
10.330	10.142	150.46962	329.70337	189.31643	1.10215
10.330	15.117	150.54843	329.61144	189.16456	1.97167
10.330	20.172	150.69663	329.74303	189.05398	2.00242
10.330	25.591	150.70966	329.59084	188.95039	1.75075
10.330	30.649	150.64088	329.98718	189.26397	1.50026
10.330	35.817	150.76518	329.59084	188.88080	1.27253
	GRADIENT	.01361	-.00104	-.01773	.07813

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(SJA313) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 313/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.220	150.13353	442.80106	254.82656	-1.82069
10.330	-6.269	150.39419	442.53823	254.23391	-1.95735
10.330	-4.176	150.32741	442.41824	254.27788	-2.03611
10.330	-2.349	150.60273	442.41369	253.81042	-2.12381
10.330	-.192	150.48056	441.91088	253.72779	-2.09903
10.330	1.867	150.53142	442.09072	253.74528	-1.98111
10.330	4.071	150.63306	442.16456	253.61642	-1.67546
10.330	5.758	150.65270	441.52814	253.21837	-1.14628
10.330	8.028	150.67864	442.21530	253.56880	.05012
10.330	10.050	150.89631	442.41369	253.31661	.91747
10.330	14.998	150.84504	441.68034	252.98267	2.01573
10.330	20.394	150.82368	441.50499	252.91805	2.04819
10.330	25.499	150.97524	442.49206	253.22903	1.79239
10.330	30.564	151.07024	442.87025	253.28608	1.52933
10.330	35.705	151.08743	441.98474	252.75088	1.29593
	GRADIENT	.02551	-.03975	-.06588	.04263

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01N51 LARC CFHT 118 (MA-22)

(SJA314) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = -30.000 SOFLAP = .000
 NO.JET = 4.000

RUN NO. 314/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.194	149.87083	175.38352	189.57745	-1.42126
10.330	-6.468	149.80025	175.24227	189.51402	-1.43811
10.330	-4.351	149.91702	175.27110	189.39756	-1.38563
10.330	-2.289	149.81594	175.19154	189.43931	-1.27314
10.330	-.271	149.99290	175.10101	189.11804	-1.04784
10.330	1.786	149.89447	174.92692	189.05408	-.67525
10.330	4.052	149.89313	174.93786	189.06759	-.23797
10.330	5.953	150.08033	175.10797	189.01538	.15389
10.330	7.962	149.97889	174.97766	189.00247	.71928
10.330	9.996	149.93454	174.89805	188.97236	1.15535
10.330	15.131	149.94352	174.97066	189.03949	1.81545
10.330	20.228	150.04966	174.77473	188.69423	1.83144
10.330	25.330	149.93653	174.74583	188.80539	1.64673
10.330	30.585	150.01309	174.93786	188.91640	1.43117
10.330	35.695	149.95182	175.11195	189.18167	1.22937
	GRADIENT	.00134	-.04437	-.04965	.13904

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O1N51 LARC CFHT 118 (MA-22)

(SJA315) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = -30.000 SDFLAP = .000
 NO.JET = 4.000

RUN NO. 315/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.231	150.10936	349.92645	377.64523	-1.44524
10.330	-6.494	150.29800	349.95532	377.20236	-1.47972
10.330	-4.159	150.35225	350.25971	377.39423	-1.42003
10.330	-2.360	150.43200	350.86851	377.84978	-1.34722
10.330	-.198	150.32958	349.97019	377.13914	-1.16039
10.330	1.853	150.53349	350.46264	377.15824	-.85348
10.330	4.054	150.61009	350.66558	377.18470	-.37419
10.330	5.726	150.48757	350.73132	377.56256	-.00567
10.330	7.936	150.42586	350.50645	377.47528	.61849
10.330	9.993	150.66806	350.31045	376.65775	1.11922
10.330	14.956	150.72105	350.51338	376.74343	1.78502
10.330	20.358	150.67727	350.89043	377.25829	1.83896
10.330	25.421	150.59809	350.60792	377.15274	1.63456
10.330	30.464	150.57978	350.68058	377.27677	1.44674
10.330	35.615	150.75306	351.25242	377.45761	1.23846
	GRADIENT	.02996	.01858	-.05513	.12620

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OIN51 LARC CFHT 118 (MA-22)

(SJA316) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .630 T/QA = 510.800
 ELEVON = -30.000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 316/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.400	150.14880	472.30177	509.58040	-1.47138
10.330	-6.448	150.12543	472.00561	509.34015	-1.50514
10.330	-4.367	150.29418	471.87463	508.62708	-1.47536
10.330	-2.304	150.34022	471.19373	507.73781	-1.41599
10.330	-.185	150.58024	471.81566	507.59738	-1.25772
10.330	1.934	150.63149	471.72241	507.72439	-.98634
10.330	3.832	150.61208	471.59967	507.21776	-.60776
10.330	5.965	150.59970	472.66526	506.15571	-.04282
10.330	7.833	150.87370	471.81566	505.15571	.50292
10.330	10.017	150.74451	471.57840	504.15571	1.07362
10.330	15.286	150.81383	471.65041	506.15571	1.79407
10.330	20.388	150.90524	471.64220	507.15571	1.83976
10.330	25.425	151.02452	471.15613	505.39668	1.65909
10.330	30.501	151.01928	470.93190	505.17369	1.44879
10.330	35.626	150.95870	472.08585	506.61477	1.24283
	GRADIENT	.04523	-.00053	-.15323	.10445

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01N51 LARC CFHT 118 (MA-22)

(SJA317) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = -30.000 BDFLAP = .000
 NO.JET = 4.000

RUN NO. 317/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.248	149.73652	-.55817	-.60388	-1.34379
10.330	-6.274	149.73652	-.50742	-.54898	-1.34727
10.330	-4.182	149.87816	-.50736	-.54839	-1.28321
10.330	-2.305	149.77501	-.50746	-.54888	-1.15483
10.330	-.285	149.80632	-.55813	-.60356	-.94133
10.330	1.790	149.86309	-.50733	-.54842	-.61915
10.330	3.736	149.83097	-.50739	-.54860	-.26903
10.330	5.938	149.74189	-.45665	-.49403	.22358
10.330	7.951	149.87825	-.55806	-.60319	.69840
10.330	10.004	149.87976	-.50739	-.54842	1.14701
10.330	15.139	149.89222	-.55813	-.60321	1.77977
10.330	20.274	149.95019	-.50736	-.54813	1.60742
10.330	25.350	149.83794	-.50739	-.54857	1.64103
10.330	30.597	149.91639	-.50733	-.54822	1.42687
10.330	35.752	149.74305	-.50742	-.54895	1.22568
	GRADIENT	-.00010	.00005	.00005	.12885

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01N51 LARC CFHT 118 (MA-22)

(SJA318) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 BDFLAP = .000
 NOJET = 4.000

RUN NO. 318/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.425	149.87462	-.60891	-.65817	-1.19987
10.330	-6.448	149.81007	-.50742	-.54871	-1.16259
10.330	-4.315	149.87266	-.50742	-.54848	-1.05551
10.330	-2.308	149.88726	-.45662	-.49352	-.89582
10.330	-.250	149.88732	-.50742	-.54843	-.66108
10.330	1.792	149.76980	-.50742	-.54886	-.31094
10.330	4.005	149.93631	-.50742	-.54825	.13155
10.330	5.704	149.80790	-.50746	-.54876	.51336
10.330	7.965	149.76980	-.55817	-.60375	1.02151
10.330	9.983	149.81421	-.50742	-.54869	1.41498
10.330	14.906	149.78532	-.50739	-.54877	1.89393
10.330	20.273	149.82868	-.50736	-.54858	1.83902
10.330	25.270	149.89162	-.50733	-.54831	1.64343
10.330	30.271	149.81982	-.50739	-.54864	1.42752
10.330	35.402	149.89742	-.50736	-.54832	1.22102
	GRADIENT	.00072	-.00247	-.00267	.14307

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01N51 LARC CFHT 118 (MA-22)

(SJA319) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 4.000

RUN NO. 319/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.347	149.97785	175.32588	189.37991	-1.21812
10.330	-6.376	150.09434	175.13384	189.02566	-1.27282
10.330	-4.208	150.08341	175.02140	188.91806	-1.15082
10.330	-2.370	150.19948	174.94879	188.69375	-1.01285
10.330	-.183	150.22126	174.74583	188.44752	-.72815
10.330	1.973	150.23212	174.74583	188.43390	-.39229
10.330	3.867	150.36629	174.63344	188.14468	.01763
10.330	5.867	150.31229	175.24227	188.86844	.45708
10.330	7.899	150.33934	174.94879	188.51821	.92436
10.330	9.934	150.28660	175.10101	188.74845	1.34704
10.330	15.036	150.31042	175.09006	188.70674	1.90091
10.330	20.129	150.18002	175.02140	188.79653	1.86413
10.330	25.437	150.32497	174.74583	188.31751	1.64667
10.330	30.394	150.27939	174.90898	188.55050	1.42840
10.330	35.509	150.19634	174.93084	188.67834	1.22117
	GRADIENT	.02886	-.04777	-.08773	.14438

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OINS1 LARC CFHT 118 (MA-22)

(SJA320) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 320/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.457	150.17939	351.19485	378.83738	-1.23559
10.330	-6.478	150.22869	351.29632	378.82247	-1.31944
10.330	-4.359	150.16881	350.85473	378.49714	-1.23616
10.330	-2.348	150.26573	350.75324	378.14359	-1.10541
10.330	-.339	150.29543	351.13041	378.47541	-.94126
10.330	1.915	150.46713	350.86162	377.75414	-.60656
10.330	3.848	150.52894	350.48454	377.19321	-.17383
10.330	5.928	150.51492	350.22390	376.94782	.28753
10.330	7.764	150.56965	349.87571	376.18634	.74999
10.330	9.973	150.51962	350.76014	377.51319	1.28472
10.330	14.862	150.66027	350.39802	376.77139	1.88515
10.330	20.222	150.72090	350.27464	376.48721	1.85934
10.330	25.207	150.65317	350.68058	377.09298	1.65852
10.330	30.427	150.73268	350.33234	376.51980	1.42911
10.330	35.546	150.67186	349.91944	376.22784	1.22133
	GRADIENT	.04472	-.03074	-.14552	.12694

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OIN51 LARC CFHT 118 (MA-22)

(SJA321) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 510.800
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 4.000

RUN NO. 321/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.233	150.19597	472.05635	509.15565	-1.36885
10.330	-6.489	150.38635	471.79441	508.22892	-1.37441
10.330	-4.375	150.31825	471.73063	508.39043	-1.29864
10.330	-2.360	150.53528	471.54073	507.45311	-1.22149
10.330	-.317	150.59074	470.98263	506.66585	-1.09145
10.330	1.962	150.56087	470.46199	506.20617	-.73299
10.330	3.697	150.66384	471.09224	506.53788	-.41620
10.330	5.917	150.79974	471.16428	506.15878	.12745
10.330	7.904	150.85729	470.77969	505.55269	.78572
10.330	9.928	150.89556	471.10540	505.77415	1.25812
10.330	15.028	150.92159	471.24447	505.83619	1.88728
10.330	20.113	150.84912	470.66498	505.45689	1.86578
10.330	25.425	150.93591	470.73705	505.24359	1.64864
10.330	30.460	150.98647	470.64365	504.97419	1.42985
10.330	35.567	151.08282	470.88116	504.90682	1.22230
	GRADIENT	.03470	-.11818	-.24420	.10985

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MA22 - FORCE SOURCE DATA TABULATION

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OINB5 LARC CFHT 118 (MA-22)

(SJA322) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 322/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.241	149.91353	158.07239	95.31991	-1.23246
10.330	-6.480	149.99204	158.00189	95.22752	-1.28855
10.330	-4.335	149.92345	158.22462	95.40539	-1.19074
10.330	-2.328	149.93173	158.01177	95.27179	-1.02821
10.330	-.304	150.10337	158.09349	95.21206	-.82470
10.330	1.759	150.07744	158.19496	95.28963	-.44564
10.330	3.896	150.08416	157.89055	95.10201	.01711
10.330	5.862	149.95667	158.11325	95.31712	.46797
10.330	8.016	150.08609	157.99202	95.16191	.94615
10.330	10.047	150.11465	158.05263	95.18030	1.36314
10.330	15.239	149.96470	158.22462	95.37915	1.90322
10.330	20.331	149.97140	158.02164	95.25253	1.85352
10.330	25.394	150.17064	158.20485	95.23645	1.64702
10.330	30.415	150.01634	157.95115	95.18152	1.42627
10.330	35.468	150.03755	158.07239	95.24112	1.22239
	GRADIENT	.02261	-.02377	-.02869	.14628

DATE 13 APR 78

MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(SJA323) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 323/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSE)	PCRC5	T/QA	L/D
10.330	-8.394	149.85482	314.69282	189.83861	-1.35269
10.330	-8.406	149.93308	314.57166	189.66647	-1.34589
10.330	-4.337	150.06412	314.53235	189.47717	-1.28765
10.330	-2.339	149.91748	314.72390	189.77800	-1.19739
10.330	-.309	150.10185	314.56343	189.44826	-1.03999
10.330	1.925	150.06320	314.38013	189.38663	-.66281
10.330	3.863	150.05142	314.29829	189.35219	-.20861
10.330	5.939	150.21174	314.07570	189.01614	.31639
10.330	7.778	150.07650	314.33758	189.34421	.77522
10.330	10.007	150.11228	314.21645	189.22614	1.29428
10.330	15.106	150.13057	314.18534	189.18435	1.89071
10.330	20.223	150.11265	314.43908	189.35974	1.85672
10.330	25.200	150.20924	314.16570	189.07345	1.65835
10.330	30.407	150.16608	314.08384	189.07851	1.42862
10.330	35.550	150.26999	314.17717	189.00391	1.22037
	GRADIENT	.00588	-.03965	-.03133	.13044

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MA22 - FORCE SOURCE DATA TABULATION

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01N85 LARC CFHT 118 (MA-22)

(SJA324) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 324/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.410	149.74781	-.50749	-.30636	-1.19785
10.330	-6.393	149.69419	-.60898	-.36776	-1.16361
10.330	-4.270	149.70518	-.60895	-.36772	-1.03979
10.330	-2.427	149.72382	-.65973	-.39833	-.91822
10.330	-.170	149.85338	-.55824	-.33721	-.63357
10.330	1.942	149.86625	-.60891	-.36730	-.28148
10.330	3.861	149.83949	-.60898	-.36741	.11949
10.330	5.950	149.84033	-.55813	-.33672	.58090
10.330	7.755	149.81634	-.60910	-.36753	.97454
10.330	9.984	149.81033	-.50742	-.30619	1.41008
10.330	15.070	149.76316	-.60895	-.36757	1.89757
10.330	20.118	149.79748	-.50739	-.30620	1.84364
10.330	25.369	149.76098	-.60898	-.36760	1.64004
10.330	30.410	149.82133	-.50746	-.30619	1.42188
10.330	35.549	149.95545	-.60887	-.36705	1.21559
	GRADIENT	.01997	.00269	.00167	.14329

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N95N50 LARC CFHT 118 (MA-22)

(SJA325) (12 JAN 76)

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1076.7000	IN. XO
LREF	=	474.8000	INCHES	YMRP	=	.0000	IN. YO
BREF	=	936.6800	INCHES	ZMRP	=	375.0000	IN. ZO
SCALE	=	.0100					

PARAMETRIC DATA

BETA	=	.000	T/QA	=	.000
ELEVON	=	10.000	BOFLAP	=	.000
NO.JET	=	2.000			

RUN NO. 325/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.437	149.99887	.00000	.00000	-1.20758
10.330	-6.291	149.94712	.00000	.00000	-1.16371
10.330	-4.254	149.93146	.00000	.00000	-1.04593
10.330	-2.253	149.85437	.00000	.00000	-.90092
10.330	-.264	149.83107	.00000	.00000	-.64826
10.330	1.823	149.83179	.00000	.00000	-.30453
10.330	3.951	149.77486	.00000	.00000	.14134
10.330	5.921	149.75789	.00000	.00000	.56090
10.330	7.910	149.72082	.00000	.00000	1.01966
10.330	10.122	149.72088	.00000	.00000	1.43649
10.330	15.086	149.68161	.00000	.00000	1.89261
10.330	20.170	149.68260	.00000	.00000	1.84115
10.330	25.437	149.62030	.00000	.00000	1.63537
10.330	30.448	149.65356	.00000	.00000	1.42068
10.330	35.403	149.62671	.00000	.00000	1.22134
	GRADIENT	-.01636	.00000	.00000	.14540

DATE 13 APR 70

MARE - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(SJA328) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 326/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.244	149.92084	164.21260	94.63640	-1.38362
10.330	-6.300	149.98581	164.06036	94.50771	-1.47804
10.330	-4.241	150.03320	164.06036	94.47785	-1.40523
10.330	-2.275	150.04923	163.91837	94.38600	-1.29006
10.330	-.256	150.10329	164.00962	94.40453	-1.12804
10.330	1.833	150.11833	163.60365	94.16142	-.79877
10.330	3.970	150.13337	163.95887	94.35641	-.31804
10.330	5.926	150.18370	163.81687	94.24310	.22816
10.330	8.090	150.20996	163.66463	94.13906	.82003
10.330	10.130	150.24206	163.72561	94.15401	1.30792
10.330	15.085	150.26667	164.17212	94.39532	1.93919
10.330	20.208	150.28354	164.00962	94.29130	1.90850
10.330	25.393	150.24835	164.42586	94.55274	1.67874
10.330	30.364	150.34777	164.28388	94.40863	1.45053
10.330	35.555	150.28419	163.96912	94.26761	1.23405
	GRADIENT	.01309	-.02489	-.02256	.13043

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DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N05N50 LARC CFHT 110 (MA-22)

(SJA327) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 327/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.301	150.23849	330.06969	189.81834	-1.73843
10.330	-6.356	150.34136	329.61295	189.42597	-1.81278
10.330	-4.281	150.36670	329.83656	189.52254	-1.80146
10.330	-2.275	150.47049	329.96819	189.46739	-1.84015
10.330	-.100	150.47810	329.51145	189.19556	-1.71384
10.330	2.082	150.59221	329.20696	188.87750	-1.48396
10.330	3.942	150.65706	329.61295	189.02903	-1.07622
10.330	6.097	150.67713	329.56220	188.97475	-.28391
10.330	8.039	150.72827	329.55265	188.90516	.51696
10.330	10.136	150.75455	329.65416	188.93041	1.19476
10.330	15.117	150.77109	329.93806	189.07237	1.98535
10.330	20.217	150.82137	330.32343	189.23011	1.96205
10.330	25.339	150.88469	330.19182	189.07533	1.71607
10.330	30.550	150.86749	330.22193	189.11413	1.46357
10.330	35.661	150.92770	330.19182	189.02145	1.24409
	GRADIENT	.03370	-.05984	-.07672	.08630

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(SJA328) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 328/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.264	150.17137	443.47005	255.14725	-1.96295
10.330	-6.332	150.35971	443.97757	255.11928	-2.08189
10.330	-4.227	150.42759	443.47005	254.71266	-2.22281
10.330	-2.233	150.49869	443.16554	254.41751	-2.28822
10.330	-.075	150.61684	442.34896	253.74951	-2.23330
10.330	2.057	150.70725	441.91987	253.35129	-2.05928
10.330	3.936	150.79550	442.91178	253.77135	-1.62578
10.330	6.083	150.84640	443.03634	253.75706	-.76414
10.330	8.065	150.93870	442.07212	253.04995	.37164
10.330	10.122	150.99607	442.73185	253.33130	1.16054
10.330	15.296	151.06424	443.34083	253.56529	2.05893
10.330	20.416	151.19513	443.36855	253.36162	1.99925
10.330	25.496	151.27845	443.79757	253.46710	1.73523
10.330	30.445	151.33374	442.75492	252.77922	1.48433
10.330	35.621	151.44458	443.29008	252.89952	1.25610
	GRADIENT	.04583	-.11770	-.14486	.06837

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N84 LARC CFHT 118 (MA-22)

(SJA329) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 2.000

RUN NO. 329/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.365	149.91825	160.58903	94.90631	-1.38608
10.330	-6.413	149.93935	160.37598	94.76706	-1.41704
10.330	-4.307	149.95666	160.12223	94.60620	-1.36159
10.330	-2.297	149.98324	160.27448	94.67937	-1.25033
10.330	-.261	150.02900	160.22373	94.62052	-1.08372
10.330	1.829	150.09402	160.12223	94.51962	-.79928
10.330	3.772	150.13276	160.12223	94.49523	-.41530
10.330	5.956	150.12346	159.96997	94.41122	.19886
10.330	7.917	150.14388	160.06147	94.45237	.81198
10.330	9.974	150.22309	159.71621	94.19894	1.29110
10.330	15.084	150.18143	159.91922	94.34484	1.89115
10.330	20.171	150.18262	159.80772	94.27831	1.86297
10.330	25.507	150.20997	159.87846	94.30287	1.64675
10.330	30.437	150.15474	159.75698	94.26588	1.42883
10.330	35.581	150.25253	159.81771	94.24034	1.22035
	GRADIENT	.02284	-.00758	-.01887	.11543

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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OIN84 LARC CFHT 118 (MA-22)

(SJA330) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 330/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.404	150.11072	321.34091	189.66536	-1.54806
10.330	-6.320	150.19628	320.39671	189.00034	-1.61170
10.330	-4.368	150.28782	320.29520	188.82537	-1.55536
10.330	-2.066	150.36205	320.85347	189.06112	-1.46070
10.330	-.265	150.46926	319.84920	188.33507	-1.35775
10.330	1.782	150.46124	320.29520	188.60774	-1.11872
10.330	3.897	150.54845	319.99069	188.31927	-.67564
10.330	5.861	150.57048	320.29520	188.47090	-.12739
10.330	7.889	150.61292	320.74132	188.68023	.53611
10.330	9.947	150.62779	320.49821	188.51861	1.11441
10.330	15.129	150.70052	319.91994	188.08764	1.86952
10.330	20.205	150.73249	320.05218	188.12548	1.85959
10.330	25.294	150.74240	320.47818	188.36350	1.66053
10.330	30.301	150.81501	320.09220	188.04606	1.43923
10.330	35.485	150.81812	320.14295	188.07200	1.22736
	GRADIENT	.03040	-.05439	-.07016	.10311

01N84 LARC CFHT 118 (MA-22)

(SJA331) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 255.400
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 331/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.346	149.96410	431.56713	254.97334	-1.69376
10.330	-6.380	150.16103	431.79711	254.77465	-1.73749
10.330	-4.278	150.26535	431.41488	254.37240	-1.65896
10.330	-2.316	150.32990	431.33717	254.21737	-1.57734
10.330	-.268	150.37929	430.47756	253.62742	-1.49182
10.330	1.794	150.50965	430.75515	253.57115	-1.24684
10.330	3.883	150.56497	431.03584	253.64316	-.83112
10.330	5.976	150.68747	431.26264	253.57032	-.26895
10.330	7.778	150.69978	431.49260	253.68480	.31245
10.330	10.010	150.81022	430.52832	252.93252	1.06442
10.330	14.880	150.85466	430.88358	253.06665	1.83488
10.330	20.159	150.93314	430.57907	252.75632	1.86501
10.330	25.222	150.96614	430.37301	252.58013	1.66759
10.330	30.478	151.01686	431.23884	253.00328	1.43403
10.330	35.556	151.11803	430.37606	252.32805	1.22695
	GRADIENT	.03815	-.06493	-.10266	.09755

DATE 13 APR 78

NA22 - FORCE SOURCE DATA TABULATION

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01N79 LARC CFHT 118 (NA-22)

(SJA332) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 1.000

RUN NO. 332/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.334	149.87694	156.16358	47.92948	-1.25361
10.330	-6.357	149.88942	156.21433	47.94107	-1.21887
10.330	-4.258	149.90153	156.05232	47.88748	-1.13333
10.330	-2.279	149.85863	156.14406	47.92935	-.98823
10.330	-.232	149.87242	156.30606	47.97466	-.74157
10.330	1.842	149.87308	156.25531	47.95887	-.42606
10.330	3.789	149.94761	156.30606	47.95061	-.03391
10.330	5.977	149.92984	156.18310	47.91856	.45294
10.330	7.977	149.92458	156.25531	47.94240	.94468
10.330	9.999	149.92148	156.97032	47.85595	1.36684
10.330	15.116	149.94414	156.31583	47.95471	1.92370
10.330	20.191	149.94995	156.27485	47.94028	1.87705
10.330	25.276	149.93487	156.06207	47.87982	1.66347
10.330	30.485	149.94959	156.31583	47.95297	1.43194
10.330	35.602	149.92984	156.08159	47.88742	1.22316
	GRADIENT	.00524	.03059	.00771	.13654

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OIN79 LARC CFHT 118 (MA-22)

(SJA333) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = 10.000 SOFLAP = .000
 NO.JET = 1.000

RUN NO. 333/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.367	149.72473	312.95574	96.14954	-1.33943
10.330	-6.384	149.72955	312.75272	96.08407	-1.35115
10.330	-4.283	149.74616	313.03768	96.16095	-1.28070
10.330	-2.255	149.80563	312.68242	96.01369	-1.14639
10.330	-.120	149.81115	312.70197	96.01615	-.94224
10.330	2.027	149.80636	312.31545	95.90054	-.56296
10.330	3.918	149.82715	312.46772	95.93398	-.13614
10.330	6.075	149.75952	312.24517	95.90895	.39883
10.330	7.909	149.77697	312.39743	95.94453	.86181
10.330	10.033	149.77685	312.29592	95.91343	1.36391
10.330	15.145	149.80017	312.11242	95.84215	1.95151
10.330	20.107	149.78326	312.24517	95.89374	1.90142
10.330	25.307	149.83175	311.83913	95.73805	1.67592
10.330	30.424	149.80834	312.29592	95.89327	1.44416
10.330	35.521	149.86109	312.19441	95.82836	1.23317
	GRADIENT	.00783	-.07333	-.02754	.13852

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01N79 LARC CFHT 118 (MA-22)

(SJA334) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 1.000

RUN NO. 334/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.153	149.78462	625.64606	192.14067	-1.58549
10.330	-6.429	149.83250	625.77085	192.11759	-1.67887
10.330	-4.070	149.86607	625.77085	192.07455	-1.65701
10.330	-2.277	149.90027	624.80657	191.73482	-1.53976
10.330	-.199	149.85743	625.41559	191.97650	-1.36820
10.330	2.096	149.90473	624.50206	191.63568	-.94917
10.330	4.031	149.98101	624.30289	191.47712	-.43902
10.330	5.831	149.97704	625.55620	191.86660	.12097
10.330	7.978	149.96066	625.46634	191.85999	.82511
10.330	10.088	150.01414	624.32635	191.44203	1.35680
10.330	14.952	150.04511	624.90807	191.58086	2.00830
10.330	20.285	150.05303	625.32535	191.69879	1.93854
10.330	25.460	150.05062	625.43117	191.73425	1.69726
10.330	30.502	150.06273	624.73241	191.50451	1.45803
10.330	35.617	150.10525	625.30242	191.62495	1.24125
	GRADIENT	.01140	-.15686	-.06271	.14776

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(SJA335) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 335/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.393	149.95014	154.23501	94.62893	-1.32639
10.330	-6.395	149.95660	154.29540	94.66190	-1.33838
10.330	-4.253	150.01284	153.97162	94.42784	-1.25831
10.330	-2.214	149.98601	154.18425	94.57516	-1.09290
10.330	-.218	150.00083	154.25429	94.60877	-.89707
10.330	1.864	150.01130	154.08275	94.49697	-.54853
10.330	4.089	150.04525	153.98125	94.41335	-.05474
10.330	5.820	150.06172	154.01013	94.42069	.34279
10.330	7.989	150.09517	154.13350	94.47527	.92178
10.330	9.847	150.06574	154.18425	94.52491	1.33038
10.330	14.971	150.05661	153.90860	94.36166	1.94836
10.330	20.572	150.06836	153.99087	94.40471	1.89012
10.330	25.511	150.06708	154.09238	94.46775	1.66519
10.330	30.481	150.03256	153.94974	94.40201	1.44044
10.330	35.608	149.96110	153.98125	94.46633	1.22922
	GRADIENT	.00442	-.00454	-.00556	.14276

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01N49 LARC CFHT 118 (MA-22)

(SJA338) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 336/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.356	149.82271	309.64462	190.14009	-1.52964
10.330	-6.355	149.85393	309.12979	189.78441	-1.59768
10.330	-4.413	149.92920	309.20710	189.73657	-1.53769
10.330	-2.062	149.95053	308.91465	189.53016	-1.41886
10.330	-.213	149.95775	308.45073	189.23641	-1.26251
10.330	2.082	149.99039	308.72377	189.36271	-.83265
10.330	4.050	150.02021	308.55934	189.22423	-.32854
10.330	5.829	150.06553	308.67302	189.23678	.19009
10.330	8.019	150.07254	308.67302	189.22794	.86662
10.330	9.866	150.10305	308.66085	189.18202	1.34954
10.330	14.975	150.07509	309.07903	189.47362	2.01488
10.330	20.357	150.11552	309.11768	189.44627	1.93542
10.330	25.464	150.10166	309.19967	189.51414	1.69515
10.330	30.536	150.12845	309.31346	189.54993	1.45560
10.330	35.431	150.20118	309.09836	189.32640	1.24776
	GRADIENT	.01054	-.06993	-.05621	.14215

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01N49 LARC CFHT 118 (MA-22)

(SJA337) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 SOFLAP = .000
 NO.JET = 2.000

RUN NO. 337/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.308	150.03876	620.58220	380.52541	-2.06873
10.330	-6.312	150.12759	620.51948	380.26182	-2.24583
10.330	-4.165	150.18444	619.77012	379.65883	-2.35810
10.330	-2.040	150.25983	619.51634	379.31297	-2.35579
10.330	-.099	150.40763	614.08555	375.61837	-2.21179
10.330	2.076	150.46466	615.84972	376.55468	-1.77854
10.330	3.831	150.52152	612.19513	374.17873	-1.16586
10.330	6.056	150.49895	609.11155	372.34985	-.18498
10.330	8.080	150.53379	608.80702	372.07756	.75048
10.330	10.104	150.57708	610.72314	373.14130	1.53802
10.330	15.120	150.60296	619.41483	378.38674	2.21463
10.330	20.246	150.66131	619.65659	378.38782	2.05534
10.330	25.405	150.64768	618.03232	377.43012	1.75822
10.330	30.449	150.69630	620.26569	378.67182	1.49658
10.330	35.644	150.77319	618.22325	377.23244	1.26277
	GRADIENT	.04373	-.92560	-.67607	.14587

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(SJA338) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 ØREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 142.500
 ELEVON = 10.000 ØOFLAP = .000
 NO.JET = 3.000

RUN NO. 338/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.252	149.81790	157.55358	142.60155	-1.38817
10.330	-6.448	149.83673	157.44222	142.48285	-1.41153
10.330	-4.288	149.85470	157.56343	142.57545	-1.32536
10.330	-2.233	149.89138	157.64524	142.61457	-1.19157
10.330	-.210	149.91949	157.28995	142.26647	-1.02736
10.330	1.893	149.88757	157.50282	142.48935	-.64953
10.330	3.869	149.90866	157.40130	142.37747	-.20593
10.330	6.001	149.95181	157.39146	142.32760	.36729
10.330	7.869	149.96873	157.39146	142.31154	.83795
10.330	10.100	149.94861	157.14751	142.11003	1.37850
10.330	15.114	149.94953	157.28995	142.23797	1.96625
10.330	20.291	149.92721	157.36038	142.32285	1.90674
10.330	25.469	149.92716	157.34071	142.30510	1.67694
10.330	30.390	149.95037	157.26046	142.21050	1.45023
10.330	35.595	149.90952	157.17862	142.17523	1.23319
	GRADIENT	.00507	-.02268	-.02534	.13596

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(SJA339) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 285.000
 ELEVON = 10.000 SOFLAP = .000
 NO.JET = 3.000

RUN NO. 339/ 0 RN/L = 1.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.127	150.45414	315.10715	283.99703	-1.65510
10.330	-6.346	150.50612	315.08745	283.88120	-1.74531
10.330	-4.200	150.55671	314.83368	283.55725	-1.72964
10.330	-2.034	150.62183	314.80260	283.40667	-1.61773
10.330	-.203	150.70610	313.89895	282.42613	-1.46723
10.330	1.894	150.71280	314.40798	282.88057	-1.09560
10.330	4.158	150.82010	314.25573	282.54242	-.50088
10.330	6.066	150.86226	314.07235	282.29863	.19829
10.330	7.968	150.85790	314.22462	282.44366	.82717
10.330	10.029	150.91116	313.95122	282.09832	1.38601
10.330	14.966	150.90404	314.02160	282.17487	2.03390
10.330	20.432	150.92813	314.04123	282.14747	1.95943
10.330	25.414	150.97577	313.46329	281.53936	1.71447
10.330	30.458	150.95419	313.08843	281.24288	1.46972
10.330	35.622	150.96484	314.20167	282.22297	1.24720
	GRADIENT	.02993	-.07282	-.12175	.14535

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 110 (MA-22)

(SJA340) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 570.000
 ELEVON = 10.000 BOFLAP = .000
 NO.JET = 3.000

RUN NO. 340/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-0.249	150.64187	631.40993	568.36246	-2.33759
10.330	-6.241	150.79861	632.06409	568.35994	-2.60844
10.330	-4.091	150.90980	631.24076	567.20138	-2.79821
10.330	-2.224	151.04512	632.09236	567.45774	-2.96360
10.330	-.148	151.12194	630.78397	565.99528	-2.98494
10.330	1.936	151.17856	631.64680	566.55721	-2.61129
10.330	4.185	151.31459	631.57350	565.98220	-1.77226
10.330	5.960	151.42892	631.53402	565.51952	-.79291
10.330	8.146	151.45733	631.97959	565.81237	.64392
10.330	10.235	151.59757	630.47944	563.94711	1.63615
10.330	15.235	151.67735	632.05284	565.05711	2.31697
10.330	20.439	151.77994	631.17871	563.89423	2.10534
10.330	25.590	151.87667	631.16185	563.52003	1.78384
10.330	30.607	151.95239	629.54304	561.79461	1.51045
10.330	35.568	152.07629	630.78397	562.44341	1.27982
	GRADIENT	.04545	.01001	-.16146	.11899

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(SJA341) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 BDFLAP = .000
 NO.JET = 3.000

RUN NO. 341/ 0 RN/L = .96 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.389	149.77275	-.05076	-.04596	-1.20326
10.330	-6.370	149.73211	-.10152	-.09194	-1.16407
10.330	-4.190	149.69148	-.05076	-.04598	-1.05155
10.330	-2.341	149.75194	.00000	.00000	-.91867
10.330	-.261	149.73185	-.10152	-.09194	-.66938
10.330	1.817	149.73874	-.05075	-.04596	-.31931
10.330	3.773	149.75699	-.10150	-.09190	.09237
10.330	5.786	149.72986	-.05076	-.04597	.51737
10.330	7.949	149.73600	-.05076	-.04597	1.03804
10.330	10.047	149.76471	-.10151	-.09191	1.41631
10.330	14.922	149.75031	.00000	.00000	1.89672
10.330	20.343	149.72087	-.05075	-.04596	1.84060
10.330	25.297	149.72568	-.05075	-.04596	1.64438
10.330	30.264	149.72603	-.15227	-.13790	1.43069
10.330	35.412	149.69787	-.05075	-.04597	1.22238
	GRADIENT	.00576	-.00766	-.00694	.14399

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OINB3 LARC CFHT 118 (MA-22)

(SJA342) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 3.000

RUN NO. 342/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.193	149.94199	-.05077	-.04591	-1.19847
10.330	-6.448	149.91980	-.05076	-.04591	-1.16117
10.330	-4.303	149.87886	-.05076	-.04592	-1.05559
10.330	-2.275	149.86685	-.05076	-.04592	-.90795
10.330	-.256	149.88877	-.10152	-.09184	-.65851
10.330	1.805	149.88394	-.05076	-.04592	-.30457
10.330	3.754	149.90344	.00000	.00000	.10712
10.330	5.746	149.87637	-.05076	-.04592	.54726
10.330	7.921	149.88461	.00000	.00000	1.04971
10.330	10.024	149.89388	-.10152	-.09184	1.44262
10.330	14.896	149.91746	.00000	.00000	1.90099
10.330	20.263	149.92780	.00000	.00000	1.83893
10.330	25.121	149.85867	.00000	.00000	1.64273
10.330	30.366	149.88685	-.10152	-.09184	1.41398
10.330	35.505	149.92971	.00000	.00000	1.20557
	GRADIENT	.00228	.00499	.00452	.14491

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01N83 LARC CFHT 118 (MA-22)

(SJAS43) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 142.500
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 3.000

RUN NO. 343/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.378	150.01884	157.83839	142.66798	-1.36307
10.330	-6.390	150.08957	157.53388	142.32564	-1.38720
10.330	-4.418	150.07297	157.65509	142.45090	-1.30721
10.330	-2.088	150.11713	157.65509	142.40900	-1.14889
10.330	-.255	150.14100	157.47328	142.22215	-.98360
10.330	2.066	150.14361	157.23920	142.00828	-.54747
10.330	4.032	150.19898	157.18844	141.91010	-.09876
10.330	5.811	150.19898	157.23920	141.95592	.33548
10.330	7.984	150.20374	157.48313	142.17164	.94547
10.330	9.858	150.17264	157.48313	142.20108	1.37462
10.330	14.976	150.21238	157.48313	142.16346	1.98527
10.330	20.382	150.26323	157.22937	141.88636	1.90327
10.330	25.322	150.22129	157.45206	142.12699	1.67453
10.330	30.325	150.30266	157.40130	142.00425	1.44163
10.330	35.545	150.23995	157.21793	141.89802	1.22299
	GRADIENT	.01319	-.06389	-.07020	.14317

DATE 13 APR 76

MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(SJA344) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 925.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = .000
 ELEVON = 10.000 GDFLAP = 13.750
 NO.JET = 3.000

RUN NO. 344/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(P5F)	PCRC5	T/OA	L/D
10.330	-8.207	149.86823	.00000	.00000	-1.20516
10.330	-6.425	149.86651	.00000	.00000	-1.17415
10.330	-4.331	149.85963	.00000	.00000	-1.05631
10.330	-2.253	149.88127	.00000	.00000	-.91528
10.330	-.072	150.02304	.00000	.00000	1.07617
10.330	1.857	149.86208	.00000	.00000	-.29430
10.330	3.804	149.89151	.00000	.00000	.10983
10.330	5.774	149.83200	.00000	.00000	.55744
10.330	7.910	149.84274	.00000	.00000	1.05998
10.330	9.862	149.81700	.00000	.00000	1.44081
10.330	14.989	149.78171	.00000	.00000	1.90381
10.330	20.692	149.81921	.00000	.00000	1.84790
10.330	25.318	149.80094	.00000	.00000	1.63384
10.330	30.378	149.78139	.00000	.00000	1.41261
10.330	35.406	149.72160	.00000	.00000	1.20903
	GRADIENT	-.00219	.00000	.00000	.14957

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01N83 LARC CFHT 118 (MA-22)

(SJA345) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 285.000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 3.000

RUN NO. 345/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.268	149.74505	313.60750	283.98385	-1.63383
10.330	-6.276	149.76040	313.89084	284.20224	-1.72506
10.330	-4.062	149.81658	314.22462	284.40683	-1.71059
10.330	-2.320	149.83447	314.05272	284.21730	-1.61309
10.330	-1.162	149.92150	313.90046	283.91459	-1.38979
10.330	2.085	149.91635	313.98234	283.99841	-1.00840
10.330	3.997	149.91990	313.88084	283.89988	-.44819
10.330	5.998	149.94004	313.88084	283.86174	.23689
10.330	8.014	149.89935	313.45526	283.55382	.93236
10.330	10.041	149.93621	313.37336	283.41003	1.50126
10.330	15.271	149.94746	313.13919	283.17701	2.07932
10.330	20.413	149.93366	313.27186	283.32306	1.96479
10.330	25.355	149.95442	314.06421	284.00034	1.71136
10.330	30.395	150.00029	314.30648	284.13250	1.46230
10.330	35.433	149.94425	313.93159	283.89967	1.24192
	GRADIENT	.01405	-.03622	-.05940	.15293

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MA22 - FORCE SOURCE DATA TABULATION

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01N83 LARC CFHT 118 (MA-22)

(SJA346) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 570.000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 3.000

RUN NO. 346/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.091	149.90188	630.47944	570.32647	-2.34354
10.330	-6.317	150.07283	630.60362	569.78902	-2.59557
10.330	-4.223	150.08370	629.47574	568.72871	-2.78109
10.330	-2.189	150.15176	630.03401	568.97509	-2.91457
10.330	-.041	150.20582	629.62800	568.40378	-2.88609
10.330	1.928	150.30722	629.01897	567.47088	-2.57295
10.330	3.880	150.36666	630.55287	568.62983	-1.73407
10.330	6.055	150.44387	630.88548	568.63779	-.44130
10.330	8.071	150.46718	629.62800	567.41647	.85589
10.330	10.061	150.48222	630.13552	567.81708	1.78523
10.330	15.299	150.50699	628.47217	566.22503	2.38438
10.330	20.453	150.58974	630.12415	567.40143	2.11776
10.330	25.409	150.59597	628.52292	565.93617	1.79386
10.330	30.464	150.61541	630.04538	567.23380	1.50923
10.330	35.643	150.68792	628.91747	565.94589	1.26501
	GRADIENT	.03545	.05427	-.08520	.11839

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MA22 - FORCE SOURCE DATA TABULATION

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01N49 LANC CFHT 118 (MA-22)

(SJA347) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVEN = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 347/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.226	149.95270	155.54483	95.43092	-1.32750
10.330	-6.416	149.96385	155.30080	95.27412	-1.34048
10.330	-4.300	149.93892	155.65606	95.50794	-1.25789
10.330	-2.285	149.95044	155.37097	95.32569	-1.09964
10.330	-.220	150.00086	155.54483	95.40028	-.89263
10.330	1.861	149.97881	155.43362	95.34609	-.51855
10.330	4.080	150.02634	155.54483	95.38408	-.03488
10.330	5.789	150.03244	155.35155	95.26168	.38377
10.330	7.988	150.01673	155.65606	95.45840	.97778
10.330	10.099	150.02694	155.55456	95.38966	1.42211
10.330	15.250	150.05214	155.63660	95.42394	1.97879
10.330	20.348	150.05079	155.36126	95.25598	1.89618
10.330	25.271	150.06488	155.45305	95.30331	1.67156
10.330	30.421	150.06335	155.55456	95.36652	1.43386
10.330	35.474	150.07248	155.41201	95.27333	1.22207
	GRADIENT	.00974	-.00727	-.01066	.14532

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01N49 LARC CFHT 118 (MA-22)

(SJA348) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.9000 INCHES YMRP = .0000 IN. YO
 BREF = 936.3800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 348/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.310	150.03052	309.78956	109.96561	-1.52917
10.330	-6.325	150.01542	309.46571	109.78612	-1.58784
10.330	-4.110	150.07705	309.46571	109.70818	-1.53164
10.330	-2.333	150.12034	308.97753	109.35430	-1.41919
10.330	-.163	150.10025	309.55515	109.73368	-1.19879
10.330	2.043	150.13690	309.41496	109.60146	-.79304
10.330	3.950	150.13803	308.92678	109.30089	-.25784
10.330	5.921	150.17858	309.50440	109.60363	.32669
10.330	7.974	150.13851	309.07903	109.39358	.93942
10.330	10.002	150.17381	308.99685	109.29872	1.46562
10.330	15.155	150.16393	309.15399	109.40745	2.06465
10.330	20.220	150.17760	308.69231	109.10738	1.95388
10.330	25.299	150.18560	308.64156	109.06621	1.70229
10.330	30.323	150.16419	309.18054	109.42338	1.45698
10.330	35.509	150.15334	308.74307	109.16903	1.23338
	GRADIENT	.00669	-.02923	-.02636	.15513

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01N49 LARC CFHT 118 (MA-22)

(SJA349) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 380.000
 ELEVON = 10.000 BDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 349/ 0 RN/L = 1.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.275	150.05397	617.04153	378.31601	-2.06386
10.330	-6.327	150.13055	620.49266	380.23789	-2.23904
10.330	-4.181	150.23091	617.54905	378.18124	-2.35811
10.330	-2.181	150.25241	617.61194	378.16563	-2.30771
10.330	-.162	150.32386	618.15807	378.32013	-2.18518
10.330	1.956	150.30594	617.72778	378.10186	-1.73856
10.330	4.167	150.42585	616.01424	376.75245	-.92962
10.330	5.879	150.43611	618.25957	378.09991	-.10258
10.330	8.063	150.42770	618.62692	378.34571	.97156
10.330	10.134	150.43694	617.14303	377.41500	1.71378
10.330	15.119	150.52560	617.38463	377.34036	2.28771
10.330	20.228	150.57586	619.25052	378.35445	2.08046
10.330	25.335	150.54622	619.82087	378.77748	1.76909
10.330	30.393	150.59508	616.33100	376.52260	1.49356
10.330	35.535	150.62089	617.56120	377.20950	1.25757
	GRADIENT	.02137	-.14593	-.14298	.16601

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01N85N50 LARC CFHT 118 (MA-22)

(SJA350) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 95.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 350/ 0 RN/L = 1.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.370	149.83930	164.49717	94.85199	-1.36280
10.330	-6.403	149.90062	164.42586	94.77208	-1.46312
10.330	-4.269	149.87134	164.23313	94.67949	-1.38129
10.330	-2.255	149.90999	164.40594	94.75468	-1.25630
10.330	-.237	149.89826	164.08007	94.57473	-1.07509
10.330	1.821	149.95984	164.38538	94.71133	-.74346
10.330	3.964	149.93777	164.59868	94.84819	-.24577
10.330	5.933	149.97477	164.23313	94.61420	.29221
10.330	7.930	150.01517	164.48689	94.73487	.82946
10.330	9.991	149.99844	164.38538	94.68696	1.32723
10.330	15.169	150.07052	164.43614	94.67071	1.96875
10.330	20.301	150.08633	164.57810	94.74246	1.90958
10.330	25.436	150.05255	164.28388	94.59437	1.67254
10.330	30.431	150.12167	164.60897	94.73792	1.43734
10.330	35.572	150.10295	164.48689	94.67947	1.22156
	GRADIENT	.00886	.03501	.01458	.13597

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(SJA331) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 SDFLAP = 13.750
 NO.JET = 2.000

RUN NO. 351/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-8.260	149.99996	330.37418	190.29557	-1.74065
10.330	-8.277	150.04967	330.03957	190.03986	-1.79089
10.330	-4.122	150.13781	330.00944	189.91096	-1.78645
10.330	-2.246	150.15707	329.92856	189.84006	-1.78620
10.330	-.227	150.24757	330.06969	189.80687	-1.65511
10.330	1.863	150.24582	329.72399	189.61028	-1.41784
10.330	4.086	150.33802	330.31297	189.83306	-.89876
10.330	5.786	150.38266	329.18639	189.12887	-.26185
10.330	8.041	150.41974	330.31397	189.72993	.63393
10.330	10.085	150.44804	330.74069	189.93930	1.30985
10.330	15.334	150.43796	330.06020	189.56120	2.03457
10.330	20.202	150.48063	329.92855	189.43187	1.97625
10.330	25.371	150.51459	330.36473	189.63951	1.71401
10.330	30.435	150.51315	330.34408	189.62947	1.46106
10.330	35.596	150.48982	330.11095	189.52502	1.23551
	GRADIENT	.02389	.02087	-.01819	.10583

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MA22 - FORCE SOURCE DATA TABULATION

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01N85N50 LARC CFHT 118 (MA-22)

(SJA352) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 255.400
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 352/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.272	150.06487	443.19324	255.16895	-1.96415
10.330	-6.274	150.17917	442.91178	254.81282	-2.06783
10.330	-4.084	150.26301	442.57960	254.47964	-2.17725
10.330	-2.251	150.32937	443.01328	254.61656	-2.21361
10.330	-.221	150.39256	442.99022	254.49633	-2.19004
10.330	1.887	150.42290	443.16554	254.54570	-1.95762
10.330	4.115	150.50687	443.49777	254.59440	-1.40469
10.330	6.013	150.58605	442.88871	254.11109	-.60929
10.330	8.082	150.67206	443.49308	254.31259	.51558
10.330	9.918	150.70426	444.13460	254.62604	1.21793
10.330	15.156	150.72501	442.81488	253.83448	2.09836
10.330	20.324	150.73030	442.83335	253.83616	2.01232
10.330	25.456	150.75128	443.67777	254.28480	1.73525
10.330	30.474	150.78141	443.88080	254.35032	1.47402
10.330	35.430	150.80914	443.49777	254.08412	1.25275
	GRADIENT	.02827	.09655	.00763	.08958

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01N79 LARC CFHT 118 (MA-22)

(SJA353) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 47.500
 ELEVON = 10.000 BOFLAP = 13.750
 NOJET = 1.000

RUN NO. 353/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/O
10.330	-8.314	149.74566	156.53841	48.08665	-1.24830
10.330	-6.315	149.72633	156.36659	48.04007	-1.20112
10.330	-4.177	149.74587	156.36659	48.03380	-1.10554
10.330	-2.325	149.76989	156.17334	47.96674	-.98579
10.330	-.125	149.70622	156.45831	48.07470	-.68859
10.330	2.044	149.74274	156.52863	48.08458	-.35179
10.330	3.741	149.76952	156.55981	48.08556	.00867
10.330	5.949	149.80006	156.42712	48.03501	.50570
10.330	8.012	149.82918	156.68089	48.10359	.99391
10.330	10.056	149.76885	156.57938	48.08536	1.41560
10.330	15.044	149.83008	156.36659	48.00680	1.93636
10.330	20.187	149.81541	156.56953	48.07383	1.87519
10.330	25.301	149.77801	156.43683	48.04508	1.65520
10.330	30.426	149.74759	156.46809	48.06443	1.42273
10.330	35.411	149.77414	156.77260	48.14943	1.22519
	GRADIENT	.00078	.03752	.01127	.14140

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01N79 LARC CFHT 118 (MA-22)

(SJA354) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 95.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 1.000

RUN NO. 354/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.343	149.84726	311.80787	95.71855	-1.33337
10.330	-6.294	149.78656	311.80787	95.75733	-1.33657
10.330	-4.138	149.78769	311.76888	95.74464	-1.25219
10.330	-2.306	149.81498	312.14366	95.84227	-1.12714
10.330	-.228	149.81529	311.76888	95.72700	-.93874
10.330	1.823	149.84024	311.97189	95.77338	-.55317
10.330	4.071	149.90012	312.29592	95.83456	-.06089
10.330	5.775	149.93293	312.36621	95.83522	.37690
10.330	7.958	149.92356	312.46772	95.87229	.94754
10.330	10.022	149.90370	312.21393	95.80711	1.39331
10.330	15.109	149.94823	312.23345	95.78465	1.96412
10.330	20.298	149.89341	312.39743	95.87000	1.89412
10.330	25.367	149.89687	312.12415	95.78392	1.66662
10.330	30.425	149.91643	311.83913	95.68397	1.43242
10.330	35.359	149.90679	312.07340	95.76201	1.22577
GRADIENT		.01227	.04314	.00540	.14498

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01N79 LARC CFHT 118 (MA-22)

(SJA355) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/OA = 190.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 1.000

RUN NO. 355/ 0 RN/L = .98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/OA	L/D
10.330	-8.271	149.06978	624.99789	191.83255	-1.55847
10.330	-6.303	149.91496	624.32635	191.56868	-1.65959
10.330	-4.143	149.90697	624.47862	191.62562	-1.62874
10.330	-2.280	149.92592	625.58365	191.94044	-1.51034
10.330	-.211	149.95142	625.55620	191.89938	-1.30925
10.330	1.834	150.01314	624.85732	191.60612	-.90724
10.330	3.966	150.00295	625.45469	191.80233	-.34554
10.330	5.967	150.01035	625.29075	191.74260	.26198
10.330	7.959	150.04615	624.64260	191.49814	.92002
10.330	10.024	150.03586	625.34151	191.72543	1.43307
10.330	15.167	150.09679	624.37710	191.35217	2.04020
10.330	20.313	150.06839	624.91206	191.55236	1.94310
10.330	25.414	150.09033	624.13505	191.28622	1.69299
10.330	30.473	150.09261	625.49379	191.69974	1.44836
10.330	35.379	150.07522	625.36484	191.68242	1.23776
	GRADIENT	.01371	.05824	.00034	.15673

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01N79N78 LARC CFHT 118 (MA-22)

(SJA356) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/GA = 95.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 356/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/GA	L/D
10.330	-8.393	149.76292	156.80200	95.27713	-1.29334
10.330	-6.391	149.90591	156.70048	95.12462	-1.26159
10.330	-4.409	149.78500	156.45646	95.05253	-1.19456
10.330	-2.300	149.80984	156.51884	95.07529	-1.09608
10.330	-.270	149.81217	156.69069	95.17820	-.85649
10.330	1.814	149.84668	156.42712	94.99622	-.55342
10.330	3.772	149.83132	156.37636	94.97513	-.13441
10.330	5.964	149.86710	156.46809	95.00815	.38114
10.330	7.990	149.85915	156.63014	95.11159	.90377
10.330	9.995	149.84847	156.24555	94.88482	1.36854
10.330	14.894	149.89891	156.44667	94.97498	1.93109
10.330	20.340	149.94078	156.43689	94.94253	1.86982
10.330	25.480	149.89636	156.49744	95.00742	1.64708
10.330	30.465	149.90329	156.37636	94.92953	1.42231
10.330	35.475	149.87326	156.13234	94.80038	1.21606
	GRADIENT	.00626	-.01216	-.01136	.12973

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01N79N78 LARC CFHT 118 (MA-22)

(SJA357) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = 190.000
 ELEVON = 10.000 BOFLAP = 13.750
 NO.JET = 2.000

RUN NO. 357/ 0 RN/L = .97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-8.359	149.79431	311.96014	189.51569	-1.43571
10.330	-6.356	149.84164	312.36621	189.70244	-1.44645
10.330	-4.174	149.83945	312.08117	189.53210	-1.38493
10.330	-2.289	149.88578	311.85862	189.33840	-1.36979
10.330	-.249	149.86747	311.97189	189.43031	-1.23477
10.330	1.839	149.86891	311.85862	189.32182	-.92762
10.330	4.074	149.95361	312.01090	189.34517	-.39423
10.330	5.744	149.94314	311.84686	189.25883	.10057
10.330	7.982	150.00841	311.84686	189.17649	.80602
10.330	10.020	150.00004	312.03041	189.29840	1.33452
10.330	14.918	150.02173	312.41696	189.50550	1.86332
10.330	20.157	150.07717	312.33497	189.38578	1.89791
10.330	25.300	150.06553	312.19441	189.31523	1.67358
10.330	30.375	150.07171	312.38574	189.42345	1.43831
10.330	35.540	150.06936	311.83913	189.09496	1.22234
	GRADIENT	.01177	-.00608	-.01856	.11891

01N49 LARC CFHT 118 (MA-22)

(SJA403) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 403/ 0 RN/L = 1.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC	T/QA	L/D
10.330	-10.390	147.41000	.00000	.00000	-1.25000
10.330	-.220	147.36000	.00000	.00000	-.67200
10.330	9.990	147.49000	.00000	.00000	1.33400
10.330	20.180	147.51000	.00000	.00000	1.86400
10.330	35.540	147.58000	.00000	.00000	1.24300
	GRADIENT	.00000	.00000	.00000	.00000

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MA22 - FORCE SOURCE DATA TABULATION

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01N49 LARC CFHT 118 (MA-22)

(SJA411) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

BETA = .000 T/QA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 411/ 0 RN/L = 1.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	Q(PSF)	PCRC5	T/QA	L/D
10.330	-10.400	147.98000	.00000	.00000	-1.23900
10.330	-.210	147.94000	.00000	.00000	-.68800
10.330	10.010	148.05000	.00000	.00000	1.33000
10.330	20.180	147.97000	.00000	.00000	1.86100
10.330	35.550	148.13000	.00000	.00000	1.24600
	GRADIENT	.00000	.00000	.00000	.00000

01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(SJA007) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 T/QA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 7/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	TEMP	BETA	Q(PSF)	PCRC5	T/QA	L/D
10.330	221.000	-.01000	146.80000	310.66430	194.69424	-1.28700
10.330	308.000	-.01000	146.90000	310.59410	194.5775	-1.30700
10.330	342.000	-.01000	146.92000	310.18820	194.23710	-1.30900
10.330	368.000	-.01000	146.81000	310.07470	194.31150	-1.28000
10.330	386.000	-.01000	146.99000	310.42250	194.29124	-1.28800
10.330	404.000	-.01000	146.91000	310.66430	194.54847	-1.27600
10.330	418.000	-.01000	146.96000	310.21950	194.20382	-1.28400
10.330	422.000	-.01000	147.00000	309.88370	193.94081	-1.28700
10.330	444.000	-.01000	147.01000	310.47320	194.29654	-1.29800
10.330	454.000	-.01000	146.89000	310.10610	194.22534	-1.28700
10.330	464.000	-.01000	147.11000	310.04790	193.89842	-1.30500
10.330	473.000	.00000	147.07000	309.71210	193.74116	-1.31300
	GRADIENT	.00000	.00000	.00000	.00000	.00000

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01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(SJA008) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

ALPHA = -10.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 9/ 0 RN/L = 1.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	TEMP	BETA	Q(PSF)	PCRC5	T/OA	L/D
10.330	295.000	.01000	147.28000	310.18820	193.76232	-1.53800
10.330	344.000	.01000	147.43000	309.96580	193.42639	-1.55100
10.330	375.000	.01000	147.39000	310.08670	193.56748	-1.55100
10.330	398.000	.01000	147.40000	310.32100	193.68746	-1.55200
10.330	417.000	.01000	147.42000	310.30160	193.64907	-1.55800
10.330	434.000	.01000	147.39000	309.87170	193.42015	-1.56300
10.330	450.000	.01000	147.46000	309.76290	193.26045	-1.56500
10.330	465.000	.01000	147.33000	310.20750	193.70861	-1.56300
10.330	480.000	.01000	147.53000	309.93440	193.27570	-1.57100
10.330	495.000	.01000	147.47000	309.98520	193.38603	-1.57200
	GRADIENT	.00000	.00000	.00000	.00000	.00000

01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(SJA009) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

ALPHA = 20.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 9/ 0 RN/L = 1.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	TEMP	BETA	Q(PSF)	PCRC5	T/OA	L/D
10.330	181.000	-.03000	147.62000	303.78220	193.06301	1.96000
10.330	235.000	-.03000	147.66000	309.61060	192.90380	1.96300
10.330	289.000	-.03000	147.72000	309.95380	193.03919	1.96900
10.330	329.000	-.03000	147.65000	309.05970	192.57360	1.97600
10.330	359.000	-.03000	147.78000	309.80160	192.86606	1.97600
10.330	387.000	-.03000	147.68000	309.58660	192.88272	1.98000
10.330	405.000	-.03000	147.87000	309.12260	192.32622	1.97900
10.330	423.000	-.03000	147.81000	309.85230	192.05847	1.98300
10.330	439.000	-.03000	147.70000	309.99260	193.08550	1.98500
10.330	451.000	-.03000	147.75000	309.55520	192.75179	1.98600
10.330	462.000	-.03000	147.71000	309.51650	192.77989	1.98400
	GRADIENT	.00000	.00000	.00000	.00000	.00000

01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(SJA010) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

ALPHA = 35.000 T/OA = 190.000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 10/ 0 RN/L = 1.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	TEMP	BETA	Q(PSF)	PCRC	T/OA	L/D
10.330	189.000	-.07000	147.97000	309.32550	192.32240	1.27000
10.330	246.000	-.07000	147.91000	309.26270	192.36135	1.26900
10.330	291.000	-.08000	147.93000	309.73880	192.63144	1.27100
10.330	333.000	-.07000	147.97000	309.53580	192.45316	1.27100
10.330	369.000	-.08000	148.07000	310.00460	192.61446	1.27100
10.330	401.000	-.08000	147.99000	309.60590	192.47072	1.27200
10.330	429.000	-.08000	148.15000	310.05530	192.54193	1.27200
10.330	451.000	-.08000	147.89000	309.70740	192.66401	1.27200
10.330	471.000	-.08000	148.01000	309.57450	192.42520	1.27200
10.330	489.000	-.08000	148.05000	308.94610	191.98271	1.27200
10.330	504.000	-.08000	147.96000	309.27000	192.30089	1.27300
	GRADIENT	.00000	.00000	.00000	.00000	.00000

01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(SJA407) (12 JAN 78)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

ALPHA = .000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 407/ 0 RN/L = .99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	TEMP	BETA	Q(PSF)	PCRC	T/OA	L/D
10.330	327.000	-.02000	146.84000	.00000	.00000	-.66800
10.330	356.000	-.02000	146.85000	.00000	.00000	-.66600
10.330	378.000	-.02000	146.96000	.00000	.00000	-.66200
10.330	396.000	-.02000	147.00000	.00000	.00000	-.67200
10.330	412.000	-.02000	147.01000	.05070	.03173	-.67100
10.330	425.000	-.02000	146.90000	.00000	.00000	-.66000
10.330	438.000	-.02000	147.06000	.00000	.00000	-.68200
10.330	450.000	-.02000	146.78000	.00000	.00000	-.67000
10.330	460.000	-.02000	146.93000	.00000	.00000	-.68000
10.330	469.000	-.02000	146.95000	.00000	.00000	-.67200
10.330	478.000	-.02000	146.83000	-.05070	-.03177	-.67400
	GRADIENT	.00000	.00000	.00000	.00000	.00000

01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(SJA408) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

ALPHA = -10.000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 408/ 0 RN/L = 1.03 GRADIENT INTERVAL = -5.00/ 5.00

MACH	TEMP	BETA	Q(PSF)	PCRC	T/OA	L/D
10.330	326.000	-.02000	147.32000	.00000	.00000	-1.25000
10.330	362.000	-.02000	147.43000	.00000	.00000	-1.24700
10.330	388.000	-.02000	147.40000	.00000	.00000	-1.24500
10.330	408.000	-.02000	147.35000	.00000	.00000	-1.25400
10.330	425.000	-.02000	147.45000	.00000	.00000	-1.24900
10.330	443.000	-.02000	147.43000	.00000	.00000	-1.25900
10.330	459.000	-.02000	147.50000	.00000	.00000	-1.25900
10.330	472.000	-.02000	147.47000	-.10150	-.06332	-1.25400
10.330	488.000	-.02000	147.46000	.00000	.00000	-1.25300
10.330	501.000	-.02000	147.34000	.00000	.00000	-1.24900
	GRADIENT	.00000	.00000	.00000	.00000	.00000

01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(SJA409) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

ALPHA = 20.000 T/OA = .000
 ELEVON = .000 BOFLAP = .000
 NO.JET = 2.000

RUN NO. 409/ 0 RN/L = 1.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	TEMP	BETA	Q(PSF)	PCRC	T/OA	L/D
10.330	208.000	.00000	147.55000	.00000	.00000	1.86300
10.330	264.000	.00000	147.66000	-.15220	-.09483	1.86600
10.330	313.000	.00000	147.66000	-.30450	-.18972	1.86800
10.330	343.000	.00000	147.66000	-.05070	-.03159	1.87100
10.330	374.000	.00000	147.79000	-.30450	-.18955	1.87100
10.330	397.000	.00000	147.78000	.00000	.00000	1.87400
10.330	414.000	.00000	147.68000	-.05080	-.03165	1.87500
10.330	431.000	.00000	147.70000	-.15220	-.09480	1.87200
10.330	446.000	.00000	147.84000	-.20300	-.12633	1.87500
10.330	457.000	.00000	147.69000	.00000	.00000	1.87500
10.330	467.000	.00000	147.70000	-.05080	-.03164	1.87300
	GRADIENT	.00000	.00000	.00000	.00000	.00000

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01N49 WING TEMPERATURE LARC CFHT 118 (MA-22)

(SJ4410) (12 JAN 76)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO
 SCALE = .0100

PARAMETRIC DATA

ALPHA = 35.000 T/OA = .000
 ELEVON = .000 BDCLAP = .000
 NO.JET = 2.000

RUN NO. 410/ 0 RN/L = 1.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	TEMP	BETA	Q(PSF)	PCRC5	T/OA	L/D
10.330	219.000	-.02000	147.94000	-.20300	-.12624	1.24500
10.330	273.000	-.02000	148.01000	-.10150	-.06309	1.24500
10.330	314.000	-.02000	148.03000	-.15220	-.09459	1.24500
10.330	353.000	-.02000	148.09100	-.20300	-.12611	1.24600
10.330	386.000	-.02000	148.13000	-.25370	-.15757	1.24600
10.330	417.000	-.02000	148.13000	-.30450	-.18912	1.24600
10.330	442.000	-.02000	148.03000	-.20300	-.12616	1.24600
10.330	463.000	-.02000	148.14000	-.25370	-.15756	1.24700
10.330	479.000	-.02000	147.98000	-.30450	-.18931	1.24700
10.330	497.000	-.02000	148.06000	-.20300	-.12614	1.24700
	GRADIENT	.00000	.00000	.00000	.00000	.00000

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